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August 30, 2012

Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, N.W.
TW-A325
Washington, D.C. 20554

Re: NECA 2013 Modification of the Average Schedule Universal Service High Cost Loop Support Formula, WC Docket No. 05-337

Dear Ms. Dortch:

In compliance with the Wireline Competition Bureau's Order, 19 FCC Rcd 24998 (2004), attached is NECA's *2013 Modification of the Average Schedule Universal Service High Cost Loop Support Formula*. This filing contains proposed modifications to the formula used to calculate interstate universal service fund high cost loop expense adjustments for average schedule companies. These average schedule modifications are scheduled to take effect on January 1, 2013 and remain in effect through December 31, 2013.

This *2013 Modification of the Average Schedule Universal Service High Cost Loop Support Formula* has been filed electronically in the above-referenced docket.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard A. Askoff".

Attachment:
2013 Modification of the Average Schedule Universal Service High Cost Loop Support Formula

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, DC 20554

2013

**NECA MODIFICATION OF
THE AVERAGE SCHEDULE UNIVERSAL SERVICE
HIGH COST LOOP SUPPORT FORMULA**

August 30, 2012

**NECA
80 South Jefferson Road
Whippany, NJ 07981**

**NECA MODIFICATION OF THE AVERAGE SCHEDULE
UNIVERSAL SERVICE HIGH COST LOOP SUPPORT FORMULA
EFFECTIVE JANUARY 1, 2013**

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**NECA MODIFICATION OF THE AVERAGE SCHEDULE
UNIVERSAL SERVICE HIGH COST LOOP SUPPORT FORMULA
EFFECTIVE JANUARY 1, 2013**

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UNIVERSAL SERVICE HIGH COST LOOP SUPPORT FORMULA
EFFECTIVE JANUARY 1, 2013**

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Summary

In this filing, the National Exchange Carrier Association, Inc. (NECA) proposes modifications to the formula used to calculate Universal Service Fund (USF) high cost loop (HCL) expense adjustments for average schedule companies. This formula and associated cost per loop values are intended to govern HCL payments to average schedule companies in the 2013 calendar year.

NECA continues to use average schedule benchmarks formulas¹, developed using cost companies benchmark limits determined by the FCC's 2011 Quantile regression, to limit recovery of capital and operating expenses from the USF Fund.

This filing describes results of NECA's studies to update the HCL Cost per Loop (CPL) formula, which continues to use methods approved by the Commission for use in determining average schedule USF payments in 2012.²

¹ See 2012 NECA Second Further Modification of the Average Schedule Universal Service High-Cost Loop Support Formula, WC Docket No. 05-337 (filed May 24, 2012) (NECA May 2012 Filing).

² See *National Exchange Carrier Association, Inc. and Universal Service Administrative Company, 2012 Modification of Average Schedule Universal Service Support Formulas, High-Cost Universal Service Support*, WC Docket No. 05-337, Order, 23 FCC Rcd 17876 (2012) (January 9, 2012 Order).

A. Background

The proposed average schedule HCL formula change is needed to assure payments to average schedule companies will simulate payments received by representative cost companies, as required by section 69.606(a) of the Commission's rules.

NECA proposes herein a formula relating cost per loop data of sample companies to their loops per exchange values (see Exhibit 1). NECA includes cost per loop amounts based on this formula for every average schedule study area in its Annual Universal Service Fund Submission of Study Results. These cost per loop amounts, when used with the payment algorithm prescribed in section 36.631 of the Commission's rules, will produce HCL payments to individual companies consistent with the Commission's rules.

Annual payments to average schedule companies under the proposed formula will total approximately \$15.6 million payable to 248 average schedule study areas in 2013. These payments reflect the maintenance of the cap on the overall fund size. In comparison, payments in 2012 under the current formula are expected to amount to \$12.3 million paid to 227 study areas. The proposed payments represent an increase of \$3.3 million, or 26.8%, compared to current payments, reflecting increases per loop in depreciation and other expenses reported by sample average schedule companies.

It should be noted the average schedule portion of high cost funding is small, in part because average schedule companies generally have costs between 115% and 150% of the capped National Average Cost per Loop (NACPL), and thus receive support compensating for only a minor portion of their loop costs. HCL funding for all rural companies in 2013 will amount to

\$773 million. If the Commission approves the Cost per Loop formula proposed herein, the \$15.6 million in HCL funding made available in 2013 to average schedule companies will represent only 2% of the total rural HCL fund.³ In contrast, there are 355 average schedule study areas, representing 26.5% of the 1338 total rural study areas.

³ During each year the capped NACPL typically adjusts upward because of quarterly data submission by cost companies as permitted by section 36.612 of the Commission's rules. Increases in the NACPL have the effect of reducing payments to all companies, including average schedule companies for all months of the year, compared to payments that would be received if no cap were in effect.

B. Procedural Aspects

In preparing proposed formula revisions, NECA receives valuable assistance from the Average Schedule Task Group. This group consists of exchange carrier representatives sponsored by industry associations (*i.e.* the National Telecommunications Cooperative Association, the Organization for the Promotion and Advancement of Small Telecommunications Companies and the USTelecom). The Task Group meets several times a year, reviews the steps taken in developing proposed average schedule formulas, advises NECA regarding the development of procedures for administration of the formulas, and assists the NECA Board of Directors in evaluating final proposed formulas. Task Group participation assures average schedule companies are able to participate fully in the development of the average schedule formulas, and also have an opportunity to provide input to NECA regarding the ways in which changes in average schedule company networks can affect settlement formulas.

As it has done in the past for each proposed average schedule modification, NECA will again provide a statement to each average schedule company advising it of the impacts of these modifications. This detailed notification includes a brief overview of the new formula as well as the factors contributing to changes in a company's support amount (e.g. changes in loop counts and exchange count data). These detailed, individual notifications assure average schedule companies are aware of proposed changes in the support formula and the impact on their settlements to enable them to plan accordingly. NECA also provides data based on this formula to USAC for USF administration.

Exhibit 1

Proposed High Cost Loop Formula for 2013 with CAPEX and OPEX Benchmarks

Average Schedule HCLS Formula

If number of USF Loops is less than 50,000, and:

If Loops per Exchange is less than 500, then:

$$\text{Cost per Loop} = \$924.455041 - \$0.438670 \times \text{Loops per Exchange}$$

If Loops per Exchange is greater than or equal to 500 but less than 2,000, then:

$$\text{Cost per Loop} = \$769.727646 - \$0.129215 \times \text{Loops per Exchange}$$

If Loops per Exchange is greater than or equal to 2,000 but less than 8,000, then:

$$\text{Cost per Loop} = \$551.530093 - \$0.020116 \times \text{Loops per Exchange}$$

If number of USF loops is greater than or equal to 50,000 or if Loops per Exchange is greater than or equal to 8,000, then:

$$\text{Cost per Loop} = \$390.60$$

CAPEX and OPEX Shares

| Loops | CAPEX Share | OPEX Share |
|--------|-------------|------------|
| < 5500 | 0.454592 | 0.545408 |
| ≥ 5500 | 0.487979 | 0.512021 |

Benchmark Formulas

| Loops | CAPEX per Loop | OPEX per Loop |
|--------|--|--|
| < 5500 | $1114.727578 - 0.128313 \times \text{Loops}$ | $1721.897670 - 0.229965 \times \text{Loops}$ |
| ≥ 5500 | 409.006181 | 457.089655 |

C. Data Used to Develop the Proposed Formula

This section describes the data underlying the proposed HCL formula. Data comes from three sources:

1. USF data submitted by the population of Subset 3 study areas settling on a cost basis.
2. Financial accounts and loop data from a sample of average schedule study areas.
3. Access line and exchange count data from the entire population of average schedule study areas

Subset 3 cost study areas provided categorized account data used to compute cost categorization factors. These data were collected in connection with the 2011 annual USF Data Submission and are available on the diskettes included with that submission.⁴

Account data and loop information were collected from the average schedule study areas sampled in 2010 and 2011. The 2010 sample provided 2009 financial accounts and loop information for 2010. The 2011 sample provided 2010 financial accounts and loop information for 2011. These data were used to determine Universal Service Fund (USF) loop cost values for each company, as described in the next section.

Loop data and access line counts from the sample were used to calculate a loop count value for each sample average schedule company. In the annual collection of data from sample study areas, NECA collects the following loop information to supplement access line counts: company official lines, off-premise extensions and special access lines. NECA determined the count of

⁴ See 2011 NECA Universal Service Fund Submission of 2010 Study Results, National Exchange Carrier Association, Inc. (filed Sept.30, 2011) (NECA 2011 USF Data Submission).

USF loops for each sample study area by adding access lines, company official lines and off-premises extensions bridged in the central office.

A loops-per-access line ratio was calculated by dividing sample total USF loops by sample total access lines. Totals used in this calculation were weighted using sample weights. Sample weights are used to expand the sample to a population estimate. A study area's sample weight is the reciprocal of the probability of it being included in the sample. The sample weight measures the count of units in the population a member of the sample represents. For example, a study area with a sample weight of three represents three study areas in the average schedule population. An unbiased estimate of the population is achieved by weighting access line data in this manner. This means an estimate developed by this method is expected to neither overestimate nor underestimate the loops-per-access line ratio.

$$2013 \text{ Fund Loops per Access Line Ratio} = 1.017799$$

Account and loop data from the sample were projected to December 2011 using account level and access line growth rates developed in NECA's 2011 study and filed in the 2012 NECA Modification of Average Schedules.⁵

⁵ See, National Exchange Carrier Association, Inc.'s 2012 Modification of Average Schedule Formulas, WC Docket No. 09-221 (filed Dec. 22, 2011).

Access line⁶ data and exchange counts for the population of average schedule study areas were taken from NECA's settlement system for the month of December 2011 based on the June 2012 view. For the purpose of evaluating the proposed formula on each member of the average schedule population, USF loop counts were calculated for each study area using the loops per access line ratio.

$$\text{USF Loops} = \text{Access Lines} \times \text{Loops per Access Line Ratio}$$

USF loops and exchange counts for each average schedule study area are displayed in Appendix C.

D. HCL Cost per Loop Formula

This section describes the derivation of the average schedule HCL Cost per Loop formula by:

- Computing categorization factors from Subset 3 cost company data;
- Determining loop costs for a sample of average schedule study areas using these factors; and
- Using sample companies' actual loop cost data to derive a statistical regression model.

These steps are explained in the following three subsections.

⁶ Average schedule companies report access line counts to NECA each month based on their billing of End User Common Line (EUCL) charges associated with basic local exchange service. NECA uses the reported December line counts to calculate USF loops for these companies. Loop counts based on these line counts are included in the annual USF data submission filed on October 1st of each year.

1. Calculation of Categorization Factors from Subset 3 Cost Companies

Cost companies submit categorized data to NECA pursuant to section 36.611 of the Commission's rules.⁷ This data was used to compute average USF loop cost categorization factors. Loop cost categorization factors are the cost company fractions of accounts attributed to loop. They were developed from accounts related to Exchange Line Cable and Wire (C&WF) Facilities (Category 1) and Exchange Line Central Office Circuit equipment (Category 4.13).

For example, by computing the ratio of cost company Central Office Equipment (COE) 4.13 investment to total cost company COE investment, NECA developed average categorization factors for Category 4.13 investment. Loop cost categorization factors were developed for each of NECA's six geographical regions, to recognize categorization differences in circuit equipment and cable and wire facilities across regions.

Exhibit 2 summarizes how these categorization factors were computed from cost company data, and how they were used to allocate average schedule company data. The first column names the Algorithm line corresponding to instructions in Tab 3 of NECA's Universal Service Fund (USF) 2011 Submission of 2010 Study Results.⁸ Algorithm lines AL3, AL4, AL5 and AL6 are categorization factors defined in the USF submission to apportion unseparated cost accounts to loop. Algorithm lines 13 through 24 are the various cost components of loop cost. Line 25 is the total unseparated loop cost. Line 26 is the cost per loop. Loop cost components are named in the second column in Exhibit 2.

⁷ Data was taken from the USF Data submission filed with the Commission on Sept. 30, 2011. See *NECA 2011 USF Data Submission*.

⁸ *Id.*

The third column is a description of each algorithm line and the last column presents cost categorization formulas used to calculate the value for each sample average schedule company.

Algorithm Lines 23 and 24 in Exhibit 2 use Adjustment Ratios to allocate Total Accumulated Depreciation to C&W Facilities and COE Transmission. This is done to ensure the amount of reserves assigned to loop is in proportion to the amount of investment assigned to loop. The adjustment ratio is calculated as follows:

$$\text{Adjustment Ratio} = \frac{\text{Proportion Of Reserves Allocated To Loop}}{\text{Proportion Of Investment Allocated To Loop}}$$

For example, an adjustment ratio of 0.95709 for Cable & Wire Facilities means the portion of reserves allocated to Loop is 95.71% of the portion of Cable & Wire Facilities investment allocated to Loop. Exhibit 3 describes the derivation of these ratios.

Exhibit 2

Allocation Of Average Schedule Accounts To Loop Cost Categories

| Algorithm Line | Loop Cost Component | Factor Description | Cost Allocation Formula |
|----------------|---------------------|---|--|
| AL3 | | Factor A: C&WF Cat. 1/Total C&WF | Average ratio by region based on cost company data |
| AL4 | | Factor B: COE Cat. 4.13/Total COE | Average ratio by region based on cost company data |
| AL5 | | Factor C (C&WF Gross Allocator): C&WF Cat. 1/Total Plant in Service | Average ratio by region based on cost company data |
| AL6 | | Factor D (COE Gross Allocator): COE Cat. 4.13/Total Plant in Service | Average ratio by region based on cost company data |
| AL13 | C&WF Maintenance | C&WF Maintenance Expense assigned to Cat. 1 C&WF R&B Factor = <u>C&WF R&B Exp.</u> <u>C&WF Expense</u> ⁹ | Factor A x (1 - C&WF R&B Factor) x <u>C&WF Expense</u> ⁹ |
| AL14 | COE Maintenance | COE Maintenance Expense assigned to Cat. 4.13 COE R&B Factor = <u>COE R&B Exp.</u> <u>COE Expense</u> | Factor B x (1 - COE R&B Factor) x <u>COE Expense</u> |

⁹ Amounts underlined are data or calculated values of sample average schedule study areas. Other values are cost company factors.

Exhibit 2

Allocation Of Average Schedule Accounts To Loop Cost Categories

| Algorithm Line | Loop Cost Component | Factor Description | Cost Allocation Formula |
|----------------|--|---|---|
| AL15 | Network and General Support Expense | <p>Network Support Expense plus General Support Expense assigned to C&WF Cat. 1 and to COE Cat. 4.13</p> <p>Net. Spt. R&B Factor = $\frac{\text{Network Spt. R&B Exp.}}{\text{Network Support Expense}}$</p> <p>Gen. Spt. R&B Factor = $\frac{\text{General Spt. R&B Exp.}}{\text{General Support Expense}}$</p> | $(\text{Factor A} + \text{Factor B})$ $\times [(1 - \text{Network Support R&B Factor})$ $\times \underline{\text{Network Support Expense}}$ $+ (1 - \text{General Support R&B Factor})$ $\times \underline{\text{General Support Expense}}]$ |
| AL16 | Network Operations Expense | <p>Network Operations Expense assigned to C&WF Cat. 1 and to COE Category 4.13</p> <p>Ntwk. Oper. R&B Factor = $\frac{\text{Ntwk. Oper. R&B Exp.}}{\text{Ntwk. Oper. Expense}}$</p> | $(\text{Factor A} + \text{Factor B})$ $\times (1 - \text{Network Operations R&B Factor})$ $\times \underline{\text{Network Operations Expense}}$ |
| AL17 | C&WF Depreciation & Amortization Expense | <p>Depreciation & Amortization Expense assigned to C&WF Category 1</p> <p>Dep. Exp. C&WF Factor = $\frac{\text{Dep. & Amort. Exp. CWF}}{\text{C&WF}}$</p> <p>Tangibles -- C&WF = $\frac{\text{Amort. Tangible Assets -- C&WF}}{\text{Amort. Tangible Assets}}$</p> <p>Depreciation--Tang. Factor = $(\text{Deprec. -- Tangibles}) / \text{Tangibles}$</p> | <p>Factor A</p> $\times [(\text{Depreciation Expense Factor -- C&WF} \times$ $\underline{\text{C&WF}})$ $+ (\text{Depreciation Expense Factor -- Tangibles} \times$ $\underline{\text{Tangibles}}) + (\text{Tangibles Factor -- C&WF} \times$ $\underline{\text{Amort. Tangible Assets}})]$ |

Exhibit 2

Allocation Of Average Schedule Accounts To Loop Cost Categories

| Algorithm Line | Loop Cost Component | Factor Description | Cost Allocation Formula |
|----------------|---|--|---|
| AL18 | COE Depreciation & Amortization Expense | <p>Depreciation & Amortization Expense assigned to COE Category 4.13</p> <p>Dep. Exp. COE Factor = <u>Dep. & Amort. Exp. COE</u> COE</p> <p>Tangibles -- COE = <u>Amort. Tangible Assets -- COE</u> Amort. Tangible Assets</p> <p>Depreciation--Tang. Factor = <u>Deprec.--Tangibles</u> Tangibles</p> | <p>Factor B</p> <p>x [(Depreciation Expense Factor--COE x <u>COE</u>) + (Depreciation Expense Factor--Tangibles x <u>Tangibles</u>) + (Tangibles Factor -- COE x <u>Amort. Tangible Assets</u>)]</p> |
| AL19 | Corporate Operations Expense | Corporate Operations Expense assigned to C&WF Cat. 1 and to COE Cat. 4.13, limited as per §36.621(a)(4) ¹⁰ | (Factor C + Factor D) x <u>Corporate Operations Expense</u> |

¹⁰ For purposes of the USF Data Submission, Corporate Operations Expenses were subject to the cap imposed by the Commission in its Report and Order and Further Notice of Proposed Rulemaking released November 18, 2011. *Connect America Fund*, WC Docket No. 10-90, *A National Broadband Plan for Our Future*, GN Docket No. 09-51, *et al.*, Report and Order and Further Notice of Proposed Rulemaking, FCC 11-161, ¶¶ 232- 233 (rel. Nov. 18, 2011) (*November 18 Order*).

Exhibit 2

Allocation Of Average Schedule Accounts To Loop Cost Categories

| Algorithm Line | Loop Cost Component | Factor Description | Cost Allocation Formula |
|----------------|---------------------|--|--|
| AL20 | Operating Taxes | <p>Operating Taxes assigned to C&WF Cat. 1 and to COE Cat. 4.13</p> <p>Operating Taxes Factor = $\frac{\text{Operating Taxes}}{\text{Total Plant in Service}}$</p> | $(\text{Factor C} + \text{Factor D})$ $\times \text{Operating Taxes Factor}$ $\times \underline{\text{Total Plant in Service}}$ |
| AL21 + AL22 | Benefits & Rents | <p>Benefits & Rents other than Corporate Operations Expense assigned to C&WF Cat. 1 and COE Cat. 4.13</p> <p>C&WF R&B Factor = $\frac{\text{C&WF R&B Expense}}{\text{C&WF Expense}}$</p> <p>COE R&B Factor = $\frac{\text{COE R&B Expense}}{\text{COE Expense}}$</p> <p>Net. Sup. R&B Factor = $\frac{\text{Network Sup. R&B Exp.}}{\text{Network Support Expense}}$</p> <p>Gen. Sup. R&B Factor = $\frac{\text{General Sup. R&B Exp.}}{\text{General Support Expense}}$</p> | $(\text{Factor C} + \text{Factor D})$ $\times [(\text{C&WF R&B Factor} \times \underline{\text{C&WF Expenses}})$ $+ (\text{COE R&B Factor} \times \underline{\text{COE Expenses}})$ $+ (\text{Net. Sup. R&B Factor} \times \underline{\text{Net. Sup. Expenses}})$ $+ (\text{General Sup. R&B Factor} \times \underline{\text{General Sup. Expenses}})$ $+ (\text{Net. Op. R&B Factor} \times \underline{\text{Net. Op. Expenses}})]$ |

Exhibit 2

Allocation Of Average Schedule Accounts To Loop Cost Categories

| Algorithm Line | Loop Cost Component | Factor Description | Cost Allocation Formula |
|----------------|---------------------|--|--|
| AL23 | C&WF Return | <p>Return Component for C&WF Cat. 1</p> <p>C&WF Cat. 1 Factor = $\frac{\text{C\&WF Cat. 1}}{\text{C\&WF}}$</p> <p>Tangibles -- C&WF Factor = $\frac{\text{Tangibles --C\&WF}}{\text{Tangibles}}$</p> <p>Accum. Dep. Adj. Ratio -- C&WF (See Exhibit 3)</p> | $\{(\text{C\&WF Cat. 1 Factor} \times \underline{\text{C\&WF}})$ $+ (\text{Tangibles Factor} -- \text{C\&WF} \times \underline{\text{Tangibles}})$ $+ (\text{Factor C} \times \underline{\text{Materials \& Supplies}})$ $- \text{Factor A} \times [(\text{Accum. Dep. Adj. Ratio} -- \text{C\&WF})$ $\times \underline{\text{Acc. Dep.}} \times \% \underline{\text{C\&WF of TPIS}})$ $+ (\text{Net N.C. D. OIT Factor} -- \text{C\&WF} \times \underline{\text{TPIS}})$ $+ (\text{Tangibles Factor} -- \text{C\&WF} \times \underline{\text{Acc. Amo.}} - \underline{\text{Tangibles}})] \} \times .1125$ |
| AL24 | COE Return | <p>Return Component for COE Cat. 4.13</p> <p>COE Cat. 4.13 Factor = $\frac{\text{COE Cat. 4.13}}{\text{COE}}$</p> <p>Tangibles -- COE Factor = $\frac{\text{Tangibles --COE}}{\text{Tangibles}}$</p> <p>Accum. Dep. Adj Ratio -- COE. (See Exhibit 3)</p> | $\{(\text{COE Cat. 4.13 Factor} \times \underline{\text{COE}})$ $+ (\text{Tangibles Factor} -- \text{COE} \times \underline{\text{Tangibles}})$ $+ (\text{Factor D} \times \underline{\text{Materials \& Supplies}})$ $- \text{Factor B} \times [(\text{Accum. Dep. Adj Ratio} -- \text{COE})$ $\times \underline{\text{Acc. Dep.}} \times \% \underline{\text{COE of TPIS}})$ $+ (\text{Net N.C. Def. OIT Factor} -- \text{COE} \times \underline{\text{TPIS}})$ $+ (\text{Tangibles Factor} -- \text{COE} \times \underline{\text{Acc. Amo.}} - \underline{\text{Tangibles}})] \} \times .1125$ |
| AL25 | Loop Costs | Total Unseparated Loop Cost | Sum of AL13 -- AL24 |
| AL26 | Cost Per Loop | Study Area Cost per Loop | AL25 Divided by Total Loops |

Exhibit 3

Adjustment Ratios For Allocation Of Total Accumulated Depreciation

| Description | Calculation | Factor name |
|---|--------------------------------|-------------------------------|
| COE Transmission fraction of TPIS | Sum DL240 / Sum DL160 | TPIS % 2230 |
| C&W Facilities fraction of TPIS | Sum DL255 / Sum DL160 | TPIS % 2410 |
| | | |
| COE Transmission fraction of Tot. Acc. Dep. | Sum DL270 / Sum DL190 | ACCT 3100 % 2230 |
| C&W Facilities fraction of Tot. Acc. Dep. | Sum DL280 / Sum DL190 | ACCT 3100 % 2410 |
| | | |
| Adjustment Ratio for COE Transmission. | ACCT 3100 % 2230 / TPIS % 2230 | Accum. Dep. Adj. Ratio - COE |
| Adjustment Ratio for C&W Facilities. | ACCT 3100 % 2410 / TPIS % 2410 | Accum. Dep. Adj. Ratio - C&WF |

DL240 = COE Transmission (Acct 2230)

DL255 = C&WF Total (Acct 2410)

DL160 = Total Plant in Service (TPIS)

DL270 = Accumulated Depreciation - COE Transmission Equipment

DL280 = Accumulated Depreciation – Cable & Wire Facilities

DL190 = Accumulated Depreciation

Exhibit 4 displays the computed values of the loop cost categorization factors from sample cost companies, in each of NECA's six geographical regions.

Exhibit 4
Loop Cost Categorization Factors from Sample Cost Companies

| FACTOR | REGION 1 | REGION 2 | REGION 3 | REGION 4 | REGION 5 | REGION 6 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
| FACTOR A | 0.88892 | 0.93649 | 0.91676 | 0.87706 | 0.87304 | 0.89043 |
| FACTOR B | 0.29026 | 0.40594 | 0.44497 | 0.44476 | 0.38755 | 0.36776 |
| FACTOR C | 0.45561 | 0.54299 | 0.51696 | 0.53190 | 0.48064 | 0.49574 |
| FACTOR D | 0.09704 | 0.11885 | 0.12833 | 0.11504 | 0.11261 | 0.11272 |
| C&WF RENTS & BENEFITS | 0.31257 | 0.30220 | 0.32463 | 0.31252 | 0.26849 | 0.26499 |
| COE RENTS & BENEFITS | 0.10198 | 0.07631 | 0.11235 | 0.13538 | 0.09583 | 0.08285 |
| TANGIBLES - C&WF | 0.00000 | 0.00000 | 0.00000 | 0.62210 | 0.03031 | 0.76601 |
| TANGIBLES - COE TRANSMISSION | 0.11517 | 0.00000 | 0.00000 | 0.00000 | 0.13409 | 0.03012 |
| TANGIBLES - COE CATEGORY 4.13 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.11742 | 0.00000 |
| ACCUMULATED DEPRECIATION - C&WF | 0.49849 | 0.56924 | 0.52713 | 0.58651 | 0.51544 | 0.52062 |
| ACCUMULATED DEPRECIATION - COE TRANS. | 0.18329 | 0.20872 | 0.23114 | 0.20028 | 0.21520 | 0.23506 |
| NET NON-CURR DEF FIT-C&WF- Commercial Comp. | 0.02346 | 0.01726 | 0.02126 | 0.02600 | 0.01587 | 0.01547 |
| NET NON-CURR DEF FIT-C&WF- Coops | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| NET NON-CURR DEF FIT-COE TRANS.- Comm Comp. | 0.00850 | 0.00815 | 0.00783 | 0.00669 | 0.00679 | 0.00931 |
| NET NON-CURR DEF FIT-COE TRANS.- Coops | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| NETWORK SUPPORT RENTS & BENEFITS | 0.05613 | 0.08185 | 0.14916 | 0.08701 | 0.23816 | 0.19796 |
| GENERAL SUPPORT RENTS & BENEFITS | 0.18797 | 0.15990 | 0.25581 | 0.22031 | 0.32984 | 0.20051 |
| NETWORK OPERATIONS BENEFITS | 0.14676 | 0.20108 | 0.22821 | 0.23784 | 0.25376 | 0.21114 |
| DEPRECIATION EXPENSE - C&WF | 0.04428 | 0.04382 | 0.04524 | 0.04628 | 0.04379 | 0.04373 |
| DEPRECIATION EXPENSE -COE TRANSMISSION | 0.07268 | 0.08679 | 0.08421 | 0.07498 | 0.07659 | 0.08164 |
| DEPRECIATION - TANGIBLES | 0.00000 | 0.00000 | 0.00000 | 0.07261 | 0.03031 | 0.00730 |
| ACCUM. DEP. ADJ. RATIO - COE | 0.97270 | 1.03013 | 1.14302 | 1.08739 | 1.09111 | 1.08947 |
| ACCUM. DEP. ADJ. RATIO - C&WF | 0.95709 | 0.95485 | 0.89110 | 0.93965 | 0.90626 | 0.90140 |
| OPERATING INCOME TAX - Cooperatives | 0.00479 | 0.00464 | 0.00673 | 0.00570 | 0.00700 | 0.00523 |
| OPERATING INCOME TAX-Commercial Companies | 0.01384 | 0.02316 | 0.01329 | 0.02096 | 0.01468 | 0.01282 |

2. Calculation of Loop Cost for Sample Average Schedule Companies

NECA calculated loop costs for sample average schedule companies consistent with the Part 36 rules that apply to cost companies. Accordingly, for each average schedule study area in the sample, the loop cost is the accumulation of components of accounts assigned to loop. Costs assigned to the loop include Cable & Wire Facilities investment in Category 1, COE investment in Category 4.13 and other accounts assigned proportionately based on these accounts. Portions of costs in accounts assigned to loop were determined using the allocation ratios derived from cost companies.

NECA applied the cost categorization factors shown in Exhibit 4 to uncategorized accounts from sample average schedule study areas to produce unseparated average schedule category-level loop costs. Section 36.621 of the Commission's rules describes various unseparated accounts making up a study area's total unseparated loop costs. Following this method, the unseparated loop cost for each sample average schedule study area was determined by summing the following categories related to COE Category 4.13 and C&WF Category 1 plant, as follows.

$$\begin{aligned} \text{Loop Cost} = & \text{ Maintenance Expense} + \text{Network \& General Support Expenses} \\ & + \text{Network Operations Expense} + \text{Depreciation \& Amortization Expense} \\ & + \text{Corporate Operations Expense} + \text{Operating Taxes} + \text{Benefits Expense} \\ & + \text{Rent Expense} + \text{Return on Investment} \end{aligned}$$

Exhibit 5 presents the results of loop cost calculations for the average schedule sample.

These calculated actual cost per loop amounts, when used with the payment algorithm prescribed in section 36.631 of the Commission's rules, produce \$181.2 million in

uncapped USF expense adjustments sample companies would be entitled to receive if they were to conduct cost studies.

NECA estimated the amount of uncapped expense adjustment that would be calculated for the entire population of average schedule companies based on individual cost studies, by using the sample weights described in Section C. Based on this calculation, the total uncapped expense adjustment amount for the entire population of average schedule companies based on cost studies would be \$230.3 million in 2013.

Exhibit 5

Allocation of Unseparated Total Accounts to Loop Weighted Total Data from the Average Schedule Sample

| HCL Algorithm Line | Cost Category | Calculation Method | Total Account Per Loop | Avg Loop % | Loop Cost Per Loop |
|--------------------|---|---|------------------------|------------|--------------------|
| 1 | C&WF Category 1 | Cost Company Factor | 2428.31 | 0.9079 | 2204.62 |
| 2 | COE Category 4.13 | Cost Company Factor | 1691.42 | 0.3708 | 627.11 |
| 3 | Factor A | % C&WF Cat 1 of Total C&WF | 2428.55 | 0.9078 | 2204.62 |
| 4 | Factor B | % COE Cat 4.13 of Total COE | 1691.42 | 0.3708 | 627.11 |
| 5 | Factor C | % C&WF Cat 1 of TPIS | 4782.37 | 0.4610 | 2204.62 |
| 6 | Factor D | % COE Cat 4.13 of TPIS | 4782.37 | 0.1311 | 627.11 |
| 7 | Materials & Supplies for CWF Cat 1 | Factor C x M&S | 34.35 | 0.4772 | 16.39 |
| 8 | Materials & Supplies for COE Cat 4.13 | Factor D x M&S | 34.35 | 0.1261 | 4.33 |
| 9 | Reserves for CWF Cat 1 | Factor A x Reserves | 3446.29 | 0.4203 | 1448.50 |
| 10 | Reserves for COE Cat 4.13 | Factor B x Reserves | 3446.29 | 0.1485 | 511.87 |
| 11 | Factor E | % Net C&WF Cat 1 of Net TPIS | 1427.82 | 0.5410 | 772.51 |
| 12 | Factor F | % Net COE Cat 4.13 of Net TPIS | 1427.82 | 0.0837 | 119.57 |
| 13 | Maintenance of C&WF Cat 1 | Factor A x (Maintenance - R & B) | 75.67 | 0.6362 | 48.14 |
| 14 | Maintenance of COE Cat 4.13 | Factor B x (Maintenance - R & B) | 62.25 | 0.3027 | 18.85 |
| 15a | Network Support Assigned to Loop | (Fact C + Fact D) x (Net Sup Exp - R&B) | 4.12 | 0.4994 | 2.06 |
| 15b | General Support Assigned to Loop | (Fact C + Fact D) x (Gen Sup Exp - R&B) | 43.31 | 0.4689 | 20.31 |
| 16 | Network Operations Assigned to Loop | (Fact C + Fact D) x (Net Ops Exp - R&B) | 51.04 | 0.4810 | 24.55 |
| 17 | Depreciation of C&WF Cat 1 | C&WF Cat 1 x C&WF Deprec Rate | 2204.62 | 0.0442 | 97.48 |
| 18 | Depreciation of COE Cat 4.13 | COE Cat 4.13 x COE Deprec Rate | 627.11 | 0.0731 | 45.84 |
| 19 | Corporate Oper. Exp. Assigned to Loop | (Fact C + Fact D) * Corp. Oper. Exp. | 147.96 | 0.5412 | 80.08 |
| 20 | Operating Taxes Assigned to Loop | (Factor C + Factor D) x Oper Taxes | 57.7 | 0.5842 | 33.71 |
| 21 | Benefits in Oper. Exp. Assigned to Loop | (Fact C + Fact D) x (Benefits - Corp Ops) | 185.36 | 0.1775 | 32.91 |
| 22 | Rents in Oper Exp Assigned to Loop | (Fact C + Fact D) x (Rents - Corp Ops) | 185.36 | 0.0482 | 8.93 |
| 23 | Return on C&WF Cat 1 | .1125 x Net CWF Cat 1 | 772.51 | 0.1125 | 86.91 |
| 24 | Return on COE Cat 4.13 | .1125 x Net COE Cat 4.13 | 119.57 | 0.1125 | 13.45 |
| 25 | Total Loop Cost | Sum 13 Thru 24 | 4536.6 | 0.1131 | 513.21 |

3. Cost per Loop Formula for 2013

This study develops a formula simulating the cost per loop data of sample companies, which is used to compute loop costs as the basis of expense adjustments for all average schedule companies. The underlying basis of the formula is the comparison of cost per loop data obtained from average schedule sample companies to their ratios of loops per exchange. Based on the relationship of these variables, a mathematical model is developed and is used to compute HCL cost per loop for each member of the total population of average schedule companies.

NECA used the actual cost per loop data of sample average schedule study areas to derive a statistical regression model. This model form was first presented in the 2002 NECA Modification of Average Schedule Universal Service Formulas, filed on October 1, 2001, and approved by the Commission in its July 30, 2002 Order.¹¹ The model relating cost per loop to loops per exchange in this year's study produces statistically significant coefficients. NECA proposes use of this model in 2013.

In Appendix B of this filing NECA presents actual HCL cost per loop data for sample average schedule study areas. This section explains the use of that data to develop a statistical model for calculating CPL values for each study area in the average schedule population.

¹¹ See *Federal-State Joint Board on Universal Service*, CC Docket No. 96-45, *National Exchange Carrier Association, Inc. Proposed 2002 Modification of Average Schedule Formulas*, Order, 17 FCC Rcd 14236 (2002).

This model uses the outlier accommodation method for regression, first introduced in NECA's December 31, 1998 average schedule filing¹² and approved by the Commission.¹³ The threshold used in this calculation was equal to three standard deviations of the residuals. The outlier accommodation method uses weighted linear regression, with regression weights defined in two steps. First residuals and DFFITS values for each observation are determined by an unweighted linear regression. Then regression weights are calculated using these values.

If $\text{Abs}(\text{residual}) \leq \text{threshold}$, then regression weight_i=1

$$\text{Else regression weight}_i = \left(\frac{C/2}{DFFITS_i} \right)^2, \text{ where } C = 2\sqrt{\frac{P+1}{N-P-1}}$$

P = number of model coefficients, N = number of observations

The model relates the CPL variable (the dependent variable) to the loops per exchange variable using constrained linear regression. The model reflects the CPL trend of sample companies, which show relatively higher costs associated with lower values of loops per exchange. This trend decreases at one rate for the smallest study areas, then decreases at slower rates for each of two groups of midsize average schedule study areas, and finally levels off for the larger study areas.

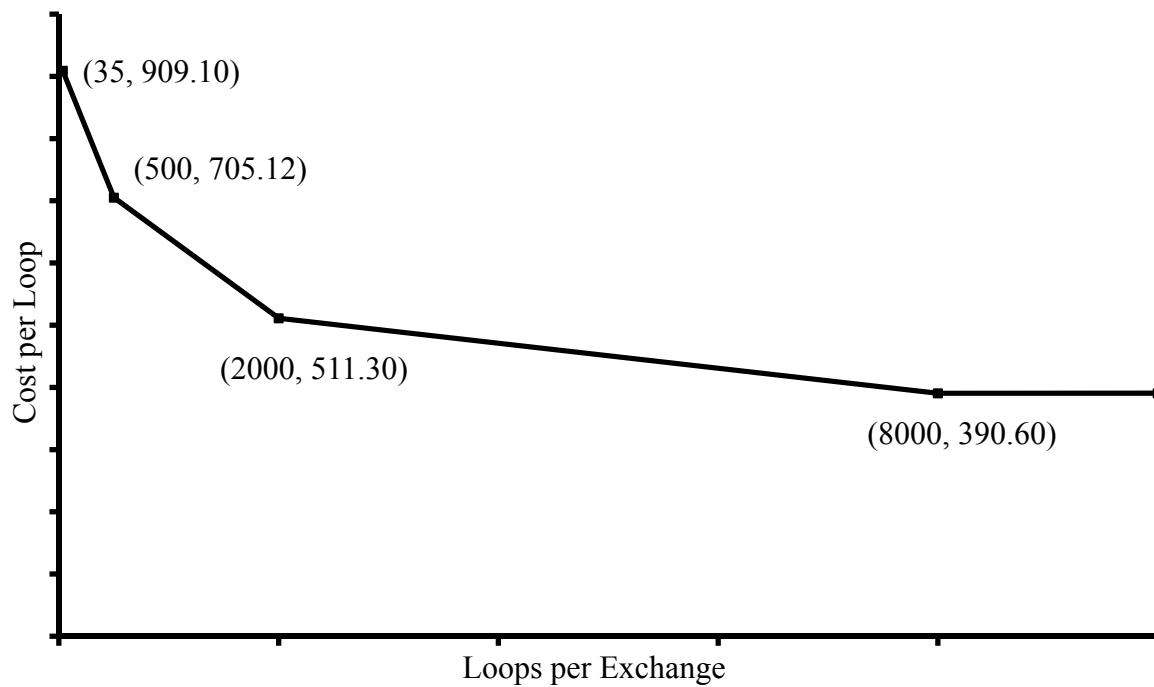
Breakpoints and levels of the straight line components of the formula were chosen because they best fit the cost per loop data. NECA designed formula breakpoints to

¹² See, 1999 NECA Modifications of Average Schedules, National Exchange Carrier Association, Inc. (filed Dec. 31, 1998).

¹³ See, National Exchange Carrier Association, Inc., Proposed Modifications to the 1999-2000 Interstate Average Schedule Formulas, ASD 99-18, Order, 14 FCC Rcd 9803 (1999).

assure support amounts would be accurately distributed across study areas in all size ranges. The resulting Cost per Loop model consists of four straight lines connected at loops per exchange breakpoints of 500, 2000 and 8000. NECA tested sets of breakpoints and regression coefficients iteratively to determine the combination with the best fit to the data.

Exhibit 6
Cost Per Loop Model



To fit the Cost per Loop formula to sample company data, NECA first calculated the overall average CPL of study areas with more than 50,000 USF Loops, or with loops per exchange exceeding 8000, using the standard weighted ratio estimation method. This method produced a formula Cost per Loop for this group of study areas of \$390.60. This CPL is a good statistical representation of the data for these study areas, which show a consistently flat trend as relates to loops per exchange.

$$\text{Cost Per Loop (a4)} = \frac{\sum_{ECs > (8000 LPE \text{ or } 50000 \text{ Loops})} \text{Sample Weight}_i \cdot \text{Outlier Weight}_i \cdot \text{Cost Per Loop}_i \cdot \text{Loops}_i}{\sum_{ECs > (8000 LPE \text{ or } 50000 \text{ Loops})} \text{Sample Weight}_i \cdot \text{Outlier Weight}_i \cdot \text{Loops}_i}$$

Next, NECA used linear regression to solve for other parameters of the model. The regression model is a sequence of four connected straight lines specified as follows (CPL designates the study area's cost per loop; LPE designates each study area's loops per exchange, and BP designates breakpoint).

$$CPL_i = [a_1 + b_1 LPE_i] \delta_{1i} + [a_2 + b_2 LPE_i] \delta_{2i} + [a_3 + b_3 LPE_i] \delta_{3i} + a_4 \delta_{4i}$$

where: $\delta_{1i} = 1$, if ($LPE_i \leq BP_1$, and loops $< 50,000$), and $\delta_{1i} = 0$ otherwise.

$\delta_{2i} = 1$, if ($BP_1 < LPE_i \leq BP_2$, and loops $< 50,000$), and $\delta_{2i} = 0$ otherwise.

$\delta_{3i} = 1$, if ($BP_2 < LPE_i \leq BP_3$, and loops $< 50,000$) and $\delta_{3i} = 0$ otherwise.

$\delta_{4i} = 1$, if ($BP_3 > LPE_i$, or loops $\geq 50,000$) and $\delta_{4i} = 0$ otherwise.

The model is constrained at the breakpoints, BP_1 , BP_2 and BP_3 , so that:

$$a_1 + b_1 \cdot BP_1 = a_2 + b_2 \cdot BP_1$$

$$a_2 + b_2 \cdot BP_2 = a_3 + b_3 \cdot BP_2$$

$$a_3 + b_3 \cdot BP_3 = a_4 = \$390.60$$

The resulting model is derived using standard linear regression methods, including outlier weighting as described earlier in this section. This model fits the CPL data most accurately, and reflects relationships between loop cost and loops per exchange. The resulting Cost per Loop model is shown in Exhibit 1.

This model produces cost per loop higher than the current formula for companies with more than 77 loops per exchange.

4. Capital and Operating Expenses Benchmarks Limit

On April 25, 2012, the Commission released its order implementing statistical models to limit capital and operating expense reimbursable from the federal HCL support fund (*Regression Order*). That order determined benchmark limits for each rate of return cost company. In addition, it directed NECA to modify the average schedule 2012 HCL support formula to reflect the caps derived from cost company data.¹⁴

In this filing, NECA continues to implement the benchmark limits for average schedule companies introduced in NACA's 2012 Second Further Modification of Average

¹⁴ Connect America Fund, WC Docket No. 10-90, High Cost Universal Service Support, WC Docket No. 05-337, Order, DA 12-646, note 28 (rel. Apr. 25, 2012) (*Regression Order*).

schedule HCL support formula.¹⁵ First, because the benchmarks apply separately to capital and operating expenses, NECA apportioned the average schedule HCL support formula into two parts, capital expenses and operating expenses. Next, NECA developed benchmark formulas based on the limits determined by the Commission for cost companies. Finally, NECA determined the effect of the benchmarks on each average schedule study area by comparing its CAPEX and OPEX HCL support amounts to the benchmark formula values.

Following are explanations of each of these steps.

It should be noted as a threshold matter that the Commission intends the benchmark models to identify cost companies with the highest ten per cent of costs nationwide, relative to the network and conditions of operation in each study area. As shown in Exhibit 7, average schedule companies have lower HCL support cost per loop than cost companies, especially those with very high cost profiles, who were limited by the Commission's benchmark models.

¹⁵ 2012 NECA Second Further Modification of the Average Schedule Universal Service High-Cost Loop Support Formula, WC Docket No. 05-337 (filed May 24, 2012) (*NECA May 2012 Filing*).

Exhibit 7

Comparative HCL Support Costs of Cost and Average
Schedule Companies

| Study Areas | Cost Per Loop |
|---|------------------|
| Cost Companies Limited by Benchmarks | \$1,089.32 |
| Cost Companies Not Limited by Benchmarks | \$799.99 |
| Average Schedule Companies | \$567.31 |

a) Data Methods

In addition, with its *Regression Order*,¹⁶ the Commission released the benchmarks for each cost company study area. Data for study areas whose costs exceeded their benchmarks was used to develop benchmark formulas for this average schedule filing, and is included in Appendix B2 of this filing.

In addition to loop counts, following is a list of data used in determining benchmarks for the sample average schedule study areas. To determine Capital Expense following the method in the *Regression Order*, the following expense categories were summed: Depreciation and Amortization Expense assigned to C&WF Category 1 (AL17), Depreciation and Amortization Expense assigned to COE Category 4.13 (AL18), Return Component for C&WF Category 1 (AL23), and Return Component for COE Category

¹⁶ *Id.*

4.13 (AL24). Operating Expenses were determined by subtracting Capital Expenses from Total Unseparated Costs (AL25). Sample weights included in Appendix B were also used for these computations.

From the data file released by the Bureau with the *Regression Order* NECA used the following data from study areas with expenses affected by benchmarks:

- Loops
- 90% CAPEX CPL Estimate from study areas with CAPEX exceeding the benchmark, and
- 90% OPEX CPL Estimate from study areas with OPEX exceeding the benchmark.

b) CAPEX Shares of Total Loop Cost

NECA developed shares to be used to apportion the USF CPL of each average schedule study area between CAPEX and OPEX. Using the average schedule sample data described in section a, NECA tested the relationship between study area loop size and a study area's actual allocation of CPL to CAPEX. Consistent with expectations, the study found that CAPEX allocation fractions are higher among study areas with more than 5,500 loops, and lower among smaller study areas. This reflects the proportionately higher operating costs and overhead incurred by smaller companies.

Accordingly, NECA developed allocation shares in two categories, stratified by loop size as follows. The two loop size categories were less than 5,500 loops, and greater than or equal to 5,500 loops.

CAPEX Share_{*Loop Size Category*}

$$= \frac{\sum_{\text{Loop Size Category}} (\text{Sample Weight} \times \text{Capital Expense})}{\sum_{\text{Loop Size Category}} (\text{Sample Weight} \times \text{Loop Cost})}$$

$$\text{OPEX Share}_{\text{Loop Size Category}} = 1 - \text{CAPEX Share}_{\text{Loop Size Category}}$$

Results of these calculations are shown in Exhibit 1, to be used with the proposed average schedule HCL support formula, which is also shown there.

c) Average Schedule Benchmark Formulas

To determine benchmarks for limiting reimbursable average schedule support, NECA used the cost company data described in section a. A CAPEX Benchmark Formula was developed using data from the 68 cost company study areas whose benchmarks caused reductions in their reimbursable CAPEX. Similarly, an OPEX Benchmark formula was developed using data from the 65 cost company study areas whose benchmarks caused reductions in their reimbursable OPEX. Both formulas were developed using ordinary least squares constrained linear regression with outlier weights. Resulting Benchmark Formulas are shown in Exhibit 1.

To determine impacts of these formulas, NECA calculated each average schedule study area's CAPEX per Loop, by multiplying its cost per loop by its CAPEX share. The study area's CAPEX benchmark was calculated by comparing the CAPEX Benchmark Formula to the study area's CAPEX per loop. If the study area's CAPEX per Loop exceeds its CAPEX benchmark, its CAPEX would be reduced to the benchmark.

The study area's OPEX per Loop was calculated as the difference between its total cost per loop and its CAPEX per loop. Using similar calculations as described above, the study area's OPEX per loop was tested against the OPEX Benchmark Formula. The CAPEX per Loop, OPEX per Loop, and benchmarks for each study area are shown in Appendix C.

This test confirmed that the average schedule HCLS formula reflects the comparatively low costs of average schedule study areas. No study area was found to have formula cost per loop values exceeding its benchmarks. The proposed benchmark formulas fully reflect the caps applied by the Commission to cost company data, and should be approved by the Commission for use in determining average schedule HCL support.

E. HCL Payments for the Population of Average Schedule companies

In 2013, actual HCL payments will be determined using each company's CPL value, the expense adjustment algorithm, and the NACPL value adjusted according to the Commission's rules to cap the total fund size. Following is a discussion of the effects of these calculations.

According to the Commission's rule 36.631 NECA calculates expense adjustments two ways, first using the uncapped NACPL defined to be \$240.00, and second using the "capped" NACPL estimated to be \$551.59 at the time of this filing.¹⁷

¹⁷ This is NECA's initial estimate of the capped NACPL for 2013, based on data reported to date.

Although average schedule companies would receive \$206.5 million using the proposed formula with the uncapped payment calculation, the capping of the fund is expected to limit this payment to \$15.6 million. Furthermore, while the cost per loop for most average schedule companies will increase pursuant to the proposed formula, 69 study areas will realize payment reductions, mostly due to the projected increase in the capped NACPL. Average schedule companies actually receiving payments in 2013 are those with loops per exchange less than 1047, according to NECA's current view of the capped NACPL. Because the current capped NACPL does not yet reflect quarterly updates to cost data submissions to be filed with the FCC after October 1 of this year, the capped NACPL can be expected to increase, further reducing average schedule payments compared to levels stated above.

F. Effects of Changes on Average Schedule Companies

This section provides a summary comparison of proposed payments of \$15.6 million and current payments of \$12.3 million, categorized by line size group and by percent change.

Exhibit 8 summarizes the monthly changes in payments by study area size.

Exhibit 8

Proposed Monthly HCL Payment Changes By Loop Size

| Access Line Size Group | Count of Study Areas | 2012 USF Payments (current) | 2013 Proposed Payment (Fund Cap Applied) | Monthly Change per Loop | Percent Difference |
|------------------------|----------------------|-----------------------------|--|-------------------------|--------------------|
| 0 TO 500 | 80 | \$163,206 | \$174,812 | \$0.50 | 7.11 |
| 500 TO 1000 | 78 | \$188,031 | \$243,360 | \$0.97 | 29.43 |
| 1000 TO 2500 | 110 | \$398,368 | \$476,918 | \$0.46 | 19.72 |
| 2500 TO 5000 | 42 | \$155,113 | \$231,198 | \$0.51 | 49.05 |
| 5000 TO 10000 | 28 | \$119,553 | \$173,274 | \$0.28 | 44.93 |
| 10000 TO 20000 | 8 | \$0 | \$0 | \$0.00 | 0.00 |
| OVER 20000 | 9 | \$0 | \$0 | \$0.00 | 0.00 |

Exhibit 9 summarizes the monthly changes in expense adjustments by percent change bands.

Exhibit 9

Proposed Monthly HCL Payment Changes By Per Cent Change Bands

| Percent Change Group | Count of Study Areas | 2012 USF Payments (current) | 2013 Proposed Payment (Fund Cap Applied) | Monthly Change per Loop |
|----------------------|----------------------|-----------------------------|--|-------------------------|
| -30% TO -20% | 4 | \$3,948 | \$3,083 | -\$4.20 |
| -20% TO -10% | 28 | \$106,800 | \$92,934 | -\$1.77 |
| -10% TO -5% | 18 | \$149,141 | \$138,591 | -\$0.75 |
| -5% TO -2% | 11 | \$122,760 | \$118,127 | -\$0.36 |
| -2% TO 0% | 8 | \$59,736 | \$58,944 | -\$0.12 |
| 0% TO 2% | 113 | \$84,361 | \$85,622 | \$0.00 |
| 2% TO 5% | 10 | \$63,154 | \$64,871 | \$0.21 |
| 5% TO 10% | 7 | \$60,472 | \$64,243 | \$0.42 |
| 10% TO 20% | 9 | \$77,216 | \$88,693 | \$0.86 |
| 20% TO 30% | 11 | \$61,446 | \$75,659 | \$1.17 |
| 30% TO 40% | 8 | \$28,535 | \$38,600 | \$1.51 |
| 40% TO 50% | 4 | \$13,199 | \$18,668 | \$1.57 |
| 50% TO 60% | 9 | \$28,990 | \$45,066 | \$1.78 |
| 60% TO 70% | 3 | \$4,234 | \$6,901 | \$2.01 |
| 70% TO 80% | 2 | \$2,628 | \$4,640 | \$2.33 |
| 80% TO 90% | 18 | \$42,637 | \$79,200 | \$1.73 |
| 90% TO 100% | 13 | \$35,261 | \$68,134 | \$1.63 |
| 100% | 21 | \$0 | \$31,285 | \$0.72 |
| 100% TO 200% | 38 | \$64,892 | \$148,801 | \$1.51 |
| 200% TO 300% | 7 | \$8,511 | \$28,447 | \$1.37 |
| OVER 300% | 13 | \$6,350 | \$39,053 | \$1.33 |

G. Conclusion

The proposed HCL formula shown in Exhibit 1 herein conforms to FCC USF reporting rules, produces payments consistent with those experienced by similarly situated cost companies as required by the Commission's Part 69 rules, and yields reasonable changes in payments to average schedule companies. The Commission should approve this formula to go into effect on January 1, 2013.

Appendix A
2012 Average Schedule USF Study
Study Area Code / Study Area Name

| Obs | Study Area Code | Study Area Name |
|-----|-----------------|---|
| 1 | 100005 | COBBOSEECONTEE TEL. CO. |
| 2 | 100019 | OXFORD COUNTY TEL. & TELE. CO. |
| 3 | 100020 | PINE TREE TELEPHONE LLC |
| 4 | 100022 | SACO RIVER TELEPHONE LLC |
| 5 | 120042 | DIXVILLE TEL. CO. |
| 6 | 120043 | DUNBARTON TEL. CO. |
| 7 | 140053 | FRANKLIN TEL. CO.-VT |
| 8 | 140064 | SHOREHAM TELEPHONE LLC |
| 9 | 150076 | CASSADAGA TEL. CORP. |
| 10 | 150125 | STATE TEL. CO. |
| 11 | 170156 | THE CITIZENS TELEPHONE COMPANY OF KECKSBURG |
| 12 | 170171 | HICKORY TEL. CO. |
| 13 | 170175 | IRONTON TEL. CO. |
| 14 | 170191 | THE NORTH-EASTERN PENNSYLVANIA TELEPHONE CO. |
| 15 | 170195 | ARMSTRONG TEL. CO. NORTH |
| 16 | 170196 | PALMERTON TELEPHONE COMPANY |
| 17 | 170197 | PENNSYLVANIA TEL. CO. |
| 18 | 170200 | PYMATUNING IND. TEL. CO. |
| 19 | 170204 | SOUTH CANAAN TEL. CO. |
| 20 | 170210 | VENUS TEL. CORP. |
| 21 | 170277 | WEST SIDE TEL. CO.-PA |
| 22 | 190220 | BURKE'S GARDEN TEL. CO., INC. |
| 23 | 190225 | CITIZENS TEL. COOP.-VA |
| 24 | 190226 | LUMOS TELEPHONE INC. |
| 25 | 190237 | HIGHLAND TEL. COOP.-VA |
| 26 | 190238 | MGW TELEPHONE COMPANY, INC. |
| 27 | 190239 | NEW HOPE TELEPHONE COOPERATIVE |
| 28 | 190243 | PEMBROKE TEL. COOP. |
| 29 | 190250 | SHENANDOAH TEL. CO. |
| 30 | 190253 | VIRGINIA TEL. CO. |
| 31 | 197251 | SHENANDOAH TELEPHONE COMPANY - NR |
| 32 | 200258 | WAR TELEPHONE LLC |
| 33 | 220324 | VALLEY TELEPHONE CO., LLC |
| 34 | 220380 | PROGRESSIVE RURAL TEL. COOP., INC. |
| 35 | 220389 | TRENTON TEL. CO. |
| 36 | 230478 | ELLERBE TEL. CO. |
| 37 | 230491 | NORTH STATE TEL. CO.-NC dba NORTH STATE COMM. |
| 38 | 230494 | PINEVILLE TEL. CO. |
| 39 | 230495 | RANDOLPH TEL. CO. |
| 40 | 230496 | RANDOLPH TEL. MEMB. CORP. |
| 41 | 230497 | SURRY TELEPHONE MEMBERSHIP CORPORATION |
| 42 | 230500 | SERVICE TEL. CO. |
| 43 | 230501 | SKYLINE TEL. MEMB. CORP. |
| 44 | 230503 | SURRY TELEPHONE MEMBERSHIP CORPORATION |
| 45 | 230505 | TRI-COUNTY TEL. MEMB. CORP.-NC |
| 46 | 230511 | YADKIN VALLEY TEL. MEMB. CORP. |
| 47 | 240515 | CHESNEE TEL. CO. |
| 48 | 240516 | CHESTER TEL. CO.-SC |
| 49 | 240532 | LOCKHART TEL. CO., INC. |

Appendix A
2012 Average Schedule USF Study
Study Area Code / Study Area Name

| Obs | Study Area Code | Study Area Name |
|-----|-----------------|--|
| 50 | 240535 | NORWAY TEL. CO., INC. |
| 51 | 240536 | PALMETTO RURAL TEL. COOP., INC. |
| 52 | 240541 | RIDGEWAY TEL. CO., INC. |
| 53 | 240546 | SANDHILL TEL. COOP., INC. |
| 54 | 250283 | BRINDLEE MOUNTAIN TELEPHONE LLC |
| 55 | 250285 | CASTLEBERRY TEL. CO., INC. |
| 56 | 250311 | OAKMAN TEL. CO., INC. |
| 57 | 250312 | OTELCO TELEPHONE LLC |
| 58 | 250322 | UNION SPRINGS TEL. CO. |
| 59 | 260398 | BRANDENBURG TEL. CO., INC. |
| 60 | 260408 | GEARHEART COMM. DBA COALFIELDS TEL. CO. |
| 61 | 260412 | LEWISPORT TEL. CO., INC. |
| 62 | 260417 | SALEM TEL. CO. |
| 63 | 260419 | THACKER/GRIGSBY TEL. CO., INC. |
| 64 | 270428 | DELCAMBRE TEL. CO. |
| 65 | 280451 | DECATUR TEL. CO., INC.-MS |
| 66 | 280467 | SMITHVILLE TEL. CO. |
| 67 | 287449 | MYRTLE TEL. CO., INC. |
| 68 | 290553 | BEN LOMAND RURAL TEL. COOP., INC. |
| 69 | 290554 | BLEDSOE TEL. COOP. |
| 70 | 290565 | HIGHLAND TEL. COOP., INC.-TN |
| 71 | 290570 | LORETTO TEL. CO., INC. |
| 72 | 290598 | WEST KENTUCKY RURAL TELEPHONE COOP. CORP.-TN |
| 73 | 300585 | ARCADIA TEL. CO. |
| 74 | 300586 | THE ARTHUR MUTUAL TEL. CO. |
| 75 | 300588 | AYERSVILLE TEL. CO. |
| 76 | 300589 | BASCOM MUTUAL TEL. CO. |
| 77 | 300590 | BENTON RIDGE TEL. CO. |
| 78 | 300591 | BUCKLAND TELEPHONE COMPANY |
| 79 | 300609 | DOYLESTOWN TEL. CO. |
| 80 | 300614 | FORT JENNINGS TEL. CO. |
| 81 | 300619 | GLANDORF TEL. CO., INC. |
| 82 | 300625 | KALIDA TEL. CO., INC. |
| 83 | 300633 | MIDDLE POINT HOME TEL. CO. |
| 84 | 300634 | MINFORD TEL. CO., INC. |
| 85 | 300639 | THE NEW KNOXVILLE TEL. CO. |
| 86 | 300645 | OAKWOOD TEL. CO. |
| 87 | 300650 | THE OTTOVILLE MUTUAL TEL. CO. |
| 88 | 300651 | PATTERSONVILLE TEL. CO.-OH |
| 89 | 300654 | RIDGEVILLE TEL. CO. |
| 90 | 300656 | SHERWOOD MUTUAL TEL. ASSOC. |
| 91 | 300659 | TELEPHONE SERVICE CO. |
| 92 | 300662 | VANLUE TEL. CO. |
| 93 | 300663 | VAUGHNSVILLE TEL. CO., INC. |
| 94 | 300664 | WABASH MUTUAL TEL. CO. |
| 95 | 310675 | BARAGA TELEPHONE COMPANY |
| 96 | 310676 | BARRY COUNTY TEL. CO. |
| 97 | 310678 | BLANCHARD TELEPHONE CO. |
| 98 | 310688 | CLIMAX TEL. CO. |

Appendix A
2012 Average Schedule USF Study
Study Area Code / Study Area Name

| Obs | Study Area Code | Study Area Name |
|-----|-----------------|--|
| 99 | 310694 | FARMERS MUT. OF CHAPIN DBA CHAPIN TEL. CO. |
| 100 | 310703 | KALEVA TEL. CO. |
| 101 | 310725 | SAND CREEK TEL. CO. |
| 102 | 310735 | WESTPHALIA TEL. CO. |
| 103 | 320744 | CAMDEN TEL. CO., INC.-IN |
| 104 | 320751 | CITIZENS TEL. CORP.-WARREN |
| 105 | 320756 | CRAIGVILLE TEL. CO., INC. |
| 106 | 320771 | GEETINGSVILLE TEL. CO., INC. |
| 107 | 320777 | HOME TEL. CO. OF PITTSBORO, INC. |
| 108 | 320778 | HOME TEL. CO., INC. |
| 109 | 320792 | MULBERRY COOP. TEL. CO., INC. |
| 110 | 320796 | NEW LISBON TEL. CO., INC. |
| 111 | 320809 | COMM. CORP. OF SOUTHERN INDIANA |
| 112 | 320816 | S & W TEL. CO., INC. |
| 113 | 320826 | SWAYZEE TEL. CO., INC. |
| 114 | 320827 | SWEETSER RURAL TEL. CO., INC. |
| 115 | 320829 | TIPTON TEL. CO., INC. |
| 116 | 320830 | TRI-COUNTY TEL. CO., INC.-IN |
| 117 | 320837 | WEST POINT TEL. CO., INC. |
| 118 | 320839 | YEOMAN TEL. CO., INC. |
| 119 | 330842 | AMERY TELCOM, INC. |
| 120 | 330843 | AMHERST TEL. CO. |
| 121 | 330846 | BALDWIN TELCOM., INC. |
| 122 | 330847 | BELMONT TEL. CO. |
| 123 | 330848 | BERGEN TEL. CO. |
| 124 | 330851 | BONDUEL TEL. CO. |
| 125 | 330856 | BURLINGTON BRIGHTON & WHEATLAND TEL. |
| 126 | 330865 | CLEAR LAKE TEL. CO., INC.-WI |
| 127 | 330868 | COON VALLEY FARMERS TEL. CO., INC. |
| 128 | 330872 | CUBA CITY TEL. EXCH. CO. |
| 129 | 330875 | DICKEYVILLE TEL. CO. |
| 130 | 330879 | FARMERS IND. TEL. CO.-WI |
| 131 | 330880 | FARMERS TEL. CO.-WI |
| 132 | 330881 | MID-PLAINS TEL., INC. |
| 133 | 330889 | HAGER TELECOM, INC. |
| 134 | 330896 | LAKEFIELD TEL. CO. |
| 135 | 330905 | MANAWA TEL. CO. |
| 136 | 330914 | EASTCOAST TELECOM, INC. |
| 137 | 330915 | MOSINEE TELEPHONE COMPANY, LLC |
| 138 | 330925 | BAYLAND TELEPHONE, LLC |
| 139 | 330930 | GRANTLAND TELECOM, INC. |
| 140 | 330938 | NORTHEAST TEL. CO. |
| 141 | 330943 | RIVERSIDE TELECOM, INC. |
| 142 | 330945 | SCANDINAVIA TEL. CO. |
| 143 | 330946 | SHARON TEL. CO. |
| 144 | 330951 | SOMERSET TEL. CO., INC. |
| 145 | 330955 | THE STATE LONG DISTANCE TEL. CO. |
| 146 | 340976 | ADAMS TEL. COOP. |
| 147 | 340983 | CAMBRIDGE TEL. CO.-IL |

Appendix A
2012 Average Schedule USF Study
Study Area Code / Study Area Name

| Obs | Study Area Code | Study Area Name |
|-----|-----------------|---|
| 148 | 340990 | CLARKSVILLE MUTUAL TEL. CO. |
| 149 | 340993 | CROSSVILLE TEL. CO. |
| 150 | 341016 | GENESEO TEL. CO. |
| 151 | 341017 | GLASFORD TEL. CO. |
| 152 | 341021 | THE GRANDVIEW MUTUAL TEL. CO. |
| 153 | 341024 | HAMILTON COUNTY TELEPHONE CO-OP |
| 154 | 341029 | HENRY COUNTY TEL. CO. |
| 155 | 341041 | KINSMAN MUTUAL TEL. CO. |
| 156 | 341046 | LEONORE MUTUAL TEL. CO. |
| 157 | 341050 | MARSEILLES TEL. CO. OF MARS. |
| 158 | 341053 | METAMORA TEL. CO. |
| 159 | 341062 | NEW WINDSOR TEL. CO. |
| 160 | 341075 | REYNOLDS TEL. CO. |
| 161 | 341086 | TONICA TEL. CO. |
| 162 | 341087 | VIOLA HOME TEL. CO. |
| 163 | 341092 | STELLE TEL. CO. |
| 164 | 351097 | ANDREW TEL. CO., INC. |
| 165 | 351098 | ARCADIA TEL. COOP. |
| 166 | 351101 | ATKINS TEL. CO. |
| 167 | 351107 | BALDWIN-NASHVILLE TEL. CO., INC. |
| 168 | 351108 | BARNES CITY COOP. TEL. CO. |
| 169 | 351112 | BREDA TEL. CORPORATION |
| 170 | 351113 | BROOKLYN MUTUAL TEL. CO. |
| 171 | 351114 | TITONKA TEL. CO. DBA TITONKA-BURT COMM (BURT) |
| 172 | 351115 | BUTLER-BREMER MUT. TEL. CO. |
| 173 | 351118 | CASCADE COMMUNICATIONS COMPANY |
| 174 | 351119 | CASEY MUTUAL TEL. CO. |
| 175 | 351121 | CENTER JUNCTION TEL. CO., INC. |
| 176 | 351125 | CENTRAL SCOTT TEL. |
| 177 | 351133 | C-M-L TEL. COOP. ASSN. |
| 178 | 351136 | COON CREEK TEL. CO. |
| 179 | 351137 | COON VALLEY COOP. TEL. ASSN., INC. |
| 180 | 351139 | COOP. TEL. CO. |
| 181 | 351141 | CORN BELT TEL. CO. |
| 182 | 351146 | CUMBERLAND TEL. CO. |
| 183 | 351147 | DANVILLE MUT. TEL. CO. |
| 184 | 351149 | FARMERS MUTUAL COOPERATIVE TEL CO (DEFIANCE) |
| 185 | 351150 | DIXON TEL. CO. |
| 186 | 351152 | DUMONT TEL. CO. |
| 187 | 351153 | DUNKERTON TEL. COOP., INC. |
| 188 | 351157 | ELLSWORTH COOP. TEL. ASSN. |
| 189 | 351160 | F&B COMMUNICATIONS, INC. |
| 190 | 351162 | FARMERS COOP. TEL. CO.-DYSART |
| 191 | 351166 | FARMERS & MERCHANTS MUTUAL TEL. CO. |
| 192 | 351168 | FARMERS MUTUAL COOP TEL CO- HARLAN |
| 193 | 351171 | FARMERS MUTUAL TEL. CO.-JESUP |
| 194 | 351173 | FARMERS MUTUAL TEL. COOP.-SHELLSBURG |
| 195 | 351175 | FARMERS TEL. CO.-BATAVIA |
| 196 | 351176 | FARMERS TEL. CO.-ESSEX |

Appendix A
2012 Average Schedule USF Study
Study Area Code / Study Area Name

| Obs | Study Area Code | Study Area Name |
|-----|-----------------|---|
| 197 | 351177 | FARMERS TEL. CO.-RICEVILLE |
| 198 | 351179 | FENTON COOP. TEL. CO. |
| 199 | 351188 | GOLDFIELD TEL. CO. |
| 200 | 351189 | RIVER VALLEY TELECOMMUNICATIONS COOP. |
| 201 | 351191 | GRAND MOUND COOP. TEL. ASSN. |
| 202 | 351199 | HAWKEYE TEL. CO. |
| 203 | 351202 | HOSPERS TEL. EXCHANGE, INC. |
| 204 | 351203 | HUBBARD COOP. TEL. ASSN. |
| 205 | 351205 | HUXLEY COMMUNICATIONS COOPERATIVE |
| 206 | 351212 | JEFFERSON TEL. CO.-IA |
| 207 | 351213 | JORDAN SOLDIER VALLEY TELEPHONE COMPANY |
| 208 | 351217 | KEYSTONE FRMS. COOP. TEL. CO. |
| 209 | 351222 | LA MOTTE TEL. CO. |
| 210 | 351225 | LEHIGH VALLEY COOP. TEL. ASSN. |
| 211 | 351228 | LONE ROCK COOP. TEL. CO. |
| 212 | 351230 | NORTHEAST IOWA TEL. CO. |
| 213 | 351232 | LYNNVILLE TELEPHONE COMPANY |
| 214 | 351235 | FARMERS MUTUAL COOPERATIVE TEL CO (MANILLA) |
| 215 | 351237 | MARNE & ELK HORN TEL. CO. |
| 216 | 351238 | MARTELLE COOP. TEL. ASSN. |
| 217 | 351239 | MASSENA TEL. CO. |
| 218 | 351241 | MECHANICSVILLE TEL. CO. |
| 219 | 351242 | MILES COOP. TEL. ASSN. |
| 220 | 351245 | MINBURN TEL. CO. |
| 221 | 351246 | MINERVA VALLEY TEL. CO., INC. |
| 222 | 351247 | MODERN COOP. TEL. CO. |
| 223 | 351250 | MUTUAL TEL. CO. OF MORNING SUN |
| 224 | 351251 | MEDIAPOLIS TEL. CO. |
| 225 | 351257 | NORTH ENGLISH COOP. TEL. CO. |
| 226 | 351259 | NORTHERN IOWA TEL. CO. |
| 227 | 351260 | NORTHWEST IOWA TELEPHONE, LLC |
| 228 | 351261 | NORTHWEST TEL. COOP. |
| 229 | 351264 | OLIN TEL. CO., INC. |
| 230 | 351265 | ONSLOW COOP. TEL. ASSN. |
| 231 | 351266 | ORAN MUTUAL TEL. CO. |
| 232 | 351269 | PALO COOPERATIVE TELEPHONE ASSOCIATION |
| 233 | 351270 | PALMER MUTUAL TEL. CO. |
| 234 | 351273 | PEOPLES TEL. CO.-IA |
| 235 | 351275 | PRAIRIEBURG TEL. CO., INC. |
| 236 | 351276 | PRESTON TEL. CO. |
| 237 | 351278 | READLYN TEL. CO. |
| 238 | 351280 | RINGSTED TEL. CO. |
| 239 | 351282 | ROCKWELL COOP. TEL. ASSN. |
| 240 | 351283 | ROYAL TEL. CO. |
| 241 | 351285 | SAC COUNTY MUTUAL TEL. CO. |
| 242 | 351291 | SCHALLER TEL. CO. |
| 243 | 351292 | SEARSBORO TEL. CO. |
| 244 | 351293 | SHARON TEL. CO. |
| 245 | 351294 | SCRANTON TEL. CO. |

Appendix A
2012 Average Schedule USF Study
Study Area Code / Study Area Name

| Obs | Study Area Code | Study Area Name |
|-----|-----------------|---|
| 246 | 351301 | SOUTHWEST TEL. EXCH., INC. |
| 247 | 351302 | SPRINGVILLE COOP. TEL. ASSN. |
| 248 | 351306 | SULLY TEL. ASSOC. |
| 249 | 351307 | SUPERIOR TEL. COOP. |
| 250 | 351308 | TEMPLETON TEL. CO. |
| 251 | 351309 | TERRIL TELEPHONE COOPERATIVE |
| 252 | 351310 | TITONKA TEL. CO. DBA TITONKA-BURT COMM |
| 253 | 351319 | VAN BUREN TEL. CO., INC. |
| 254 | 351320 | VAN HORNE COOP. TEL. CO. |
| 255 | 351322 | VENTURA TEL. CO., INC. |
| 256 | 351331 | WEST IOWA TEL. CO. |
| 257 | 351334 | WESTERN IOWA TEL. ASSN. |
| 258 | 351335 | WESTSIDE INDP. TEL. CO. |
| 259 | 351336 | WILTON TEL. CO. |
| 260 | 351342 | WOOLSTOCK MUT. TEL. ASSN. |
| 261 | 351343 | WYOMING MUTUAL TEL. CO. |
| 262 | 351344 | PRAIRIE TEL. CO., INC. |
| 263 | 351405 | ALLIANCE COMM. COOPERATIVE, INC.-HILLS IA |
| 264 | 351424 | MABEL COOP. TEL. CO.-IA |
| 265 | 361348 | WILDERNESS VALLEY TELEPHONE COMPANY, INC. |
| 266 | 361353 | CITY OF BARNESVILLE TEL. CO. |
| 267 | 361356 | BENTON COOP. TEL. CO. |
| 268 | 361365 | CALLAWAY TEL. CO. |
| 269 | 361372 | CLEMENTS TEL. CO. |
| 270 | 361375 | MID-COMMUNICATIONS, INC. dba HICKORYTECH |
| 271 | 361381 | DUNNELL TEL. CO., INC. |
| 272 | 361390 | FEDERATED TEL. COOP. |
| 273 | 361396 | GARDONVILLE COOP. TEL. ASSN. |
| 274 | 361401 | HALSTAD TEL. CO. |
| 275 | 361403 | FEDERATED TELEPHONE COOPERATIVE |
| 276 | 361404 | HARMONY TEL. CO. |
| 277 | 361405 | ALLIANCE COMM. COOPERATIVE, INC.-HILLS MN |
| 278 | 361408 | HOME TEL. CO.-MN |
| 279 | 361409 | HUTCHINSON TELEPHONE COMPANY |
| 280 | 361413 | MID STATE TEL. CO. DBA KMP TEL. CO. |
| 281 | 361423 | RUNESTONE TELEPHONE ASSOCIATION |
| 282 | 361424 | MABEL COOPERATIVE TELEPHONE CO.- MN |
| 283 | 361426 | MANCHESTER-HARTLAND TELEPHONE CO. |
| 284 | 361427 | MANKATO CITIZENS TELEPHONE CO dba HICKORYTECH |
| 285 | 361430 | MELROSE TELEPHONE COMPANY |
| 286 | 361431 | MIDWEST TEL. CO. |
| 287 | 361439 | MINNESOTA VALLEY TEL. CO. INC. |
| 288 | 361440 | CANNON VALLEY TELECOM, INC. |
| 289 | 361443 | LORETEL SYSTEMS, INC. |
| 290 | 361450 | PARK REGION MUTUAL TEL. CO. |
| 291 | 361472 | REDWOOD COUNTY TEL. CO. |
| 292 | 361474 | ROTHSAY TELEPHONE COMPANY INC. |
| 293 | 361475 | RUNESTONE TEL. ASSN. |
| 294 | 361476 | SACRED HEART TEL. CO. |

Appendix A
2012 Average Schedule USF Study
Study Area Code / Study Area Name

| Obs | Study Area Code | Study Area Name |
|-----|-----------------|---|
| 295 | 361479 | SCOTT RICE TEL. CO. dba INTEGRA TELECOM |
| 296 | 361487 | STARBUCK TEL. CO. |
| 297 | 361495 | VALLEY TEL. CO.-MN |
| 298 | 361499 | CROSSLAKE TELEPHONE COMPANY |
| 299 | 361500 | NORTHERN TELEPHONE COMPANY OF MN |
| 300 | 361502 | WESTERN TELEPHONE COMPANY |
| 301 | 361505 | WIKSTROM TELEPHONE COMPANY INC. |
| 302 | 361507 | WINSTED TELEPHONE COMPANY |
| 303 | 361508 | WINTHROP TEL. CO. |
| 304 | 361512 | WOLVERTON TELEPHONE COMPANY |
| 305 | 361515 | ZUMBROTA TELEPHONE COMPANY |
| 306 | 361654 | INTERSTATE TELECOMMUNICATIONS COOP., INC.-MN |
| 307 | 371530 | CONSOLIDATED TELCO, INC. |
| 308 | 371555 | HAMILTON TELEPHONE COMPANY |
| 309 | 371563 | HOOPER TELEPHONE COMPANY |
| 310 | 371581 | PIERCE TELEPHONE COMPANY |
| 311 | 371590 | SODTOWN TEL. CO. |
| 312 | 381509 | WOLVERTON TEL. CO. |
| 313 | 381601 | ABSARAKA COOP TELEPHONE CO. |
| 314 | 381614 | POLAR COMMUNICATIONS MUTUAL AID CORP (A) |
| 315 | 381615 | GRIGGS COUNTY TELEPHONE COMPANY |
| 316 | 381622 | MOORE & LIBERTY TELEPHONE COMPANY |
| 317 | 381625 | NORTHWEST COMMUNICATIONS COOPERATIVE |
| 318 | 381638 | MIDSTATE COMMUNICATIONS INC. |
| 319 | 383303 | SRT COMMUNICATIONS, INC. |
| 320 | 391640 | GOLDEN WEST TELECOM COOP (ARMOUR) |
| 321 | 391649 | BERESFORD MUNICIPAL TEL. CO. |
| 322 | 391650 | CITY OF BROOKINGS MUNICIPAL TEL. DEPT. |
| 323 | 391653 | CITY OF FAITH MUNICIPAL TEL CO |
| 324 | 391660 | FORT RANDALL TEL. CO. DBA MT. RUSHMORE TEL CO |
| 325 | 391664 | JAMES VALLEY COOPERATIVE TELEPHONE COMPANY |
| 326 | 391669 | TRIOTEL COMMUNICATIONS, INC. (MCCOOK) |
| 327 | 391671 | WEST RIVER TELECOMMUNICATIONS COOP.(MOBRIDGE) |
| 328 | 391677 | GOLDEN WEST TELECOM COOP (SIOUX VALLEY) |
| 329 | 391682 | TRIOTEL COMMUNICATIONS, INC. (TRI-COUNTY) |
| 330 | 391684 | GOLDEN WEST TELECOM COOP (UNION) |
| 331 | 401710 | MAGAZINE TELEPHONE COMPANY |
| 332 | 401712 | MOUNTAIN VIEW TELEPHONE COMPANY |
| 333 | 401722 | E. RITTER TELEPHONE COMPANY |
| 334 | 421759 | CRAW-KAN TELEPHONE COOP INC - MO |
| 335 | 421893 | CHOCTAW TELEPHONE COMPANY |
| 336 | 421900 | KLM TEL. CO. |
| 337 | 421932 | LATHROP TELEPHONE COMPANY |
| 338 | 421936 | PEACE VALLEY TELEPHONE CO. |
| 339 | 421942 | ROCK PORT TEL. CO. |
| 340 | 431968 | BEGGS TELEPHONE COMPANY |
| 341 | 442043 | NORTH TEXAS TELEPHONE COMPANY |
| 342 | 442107 | LIVINGSTON TELEPHONE COMPANY |
| 343 | 462198 | PINE DRIVE TEL. CO. |

Appendix A
2012 Average Schedule USF Study
Study Area Code / Study Area Name

| Obs | Study Area Code | Study Area Name |
|-----|-----------------|---|
| 344 | 462206 | STONEHAM COOPERATIVE TEL. CO. |
| 345 | 462210 | WILLARD TEL. CO. |
| 346 | 472227 | MUD LAKE TELEPHONE COOPERATIVE ASSN. INC. |
| 347 | 482252 | RONAN TEL. CO. |
| 348 | 502279 | GUNNISON TEL. CO. |
| 349 | 502282 | MANTI TELEPHONE COMPANY |
| 350 | 502283 | SKYLINE TELECOM |
| 351 | 522430 | MCDANIEL TELEPHONE COMPANY |
| 352 | 532386 | MT. ANGEL TELEPHONE COMPANY |
| 353 | 532396 | ST. PAUL COOP. TEL. ASSN. |
| 354 | 613005 | CIRCLE TELEPHONE & ELECTRIC, LLC |
| 355 | 613026 | NORTH COUNTRY TELEPHONE COMPANY |

Appendix B
2012 Average Schedule USF Study
Sample Average Schedule Study Areas
Underlying data - Cost per Loop Calculation

| Study Area Code | Actual USF Loop Count | Exchange Count | Sample Weight | Actual Cost per Loop |
|-----------------|-----------------------|----------------|---------------|----------------------|
| 100015 | 6933 | 7 | 1.0000 | 453.32 |
| 100019 | 4727 | 6 | 1.0000 | 606.76 |
| 100020 | 4396 | 3 | 1.0000 | 339.39 |
| 100022 | 5703 | 3 | 1.0000 | 334.23 |
| 120043 | 1453 | 1 | 2.5620 | 494.75 |
| 140053 | 790 | 1 | 5.3148 | 482.91 |
| 150125 | 6147 | 2 | 1.0000 | 343.80 |
| 170151 | 15451 | 2 | 1.0000 | 283.00 |
| 170161 | 211381 | 79 | 1.0000 | 326.50 |
| 170162 | 37337 | 10 | 1.0000 | 356.89 |
| 170165 | 43318 | 6 | 1.0000 | 253.22 |
| 170171 | 1170 | 1 | 4.3284 | 318.17 |
| 170191 | 9428 | 8 | 1.0000 | 393.63 |
| 170193 | 44878 | 8 | 1.0000 | 325.73 |
| 170195 | 458 | 1 | 1.5000 | 417.53 |
| 170196 | 6748 | 4 | 1.0000 | 464.81 |
| 170204 | 2301 | 2 | 1.0000 | 626.17 |
| 190253 | 1786 | 1 | 1.0000 | 637.47 |
| 200258 | 1309 | 1 | 1.5000 | 435.47 |
| 220324 | 2621 | 1 | 2.5000 | 547.30 |
| 220364 | 6034 | 4 | 1.0000 | 384.48 |
| 220387 | 13680 | 2 | 1.0000 | 373.30 |
| 220389 | 4892 | 3 | 1.5000 | 607.12 |
| 220395 | 3588 | 3 | 1.0000 | 583.12 |
| 230491 | 73837 | 3 | 1.0000 | 542.13 |
| 230496 | 7973 | 7 | 2.5000 | 515.19 |
| 230497 | 2338 | 2 | 2.5000 | 607.73 |
| 230501 | 29681 | 12 | 1.0000 | 517.72 |
| 230503 | 12091 | 6 | 1.0000 | 594.23 |
| 230505 | 2756 | 3 | 2.5000 | 595.16 |
| 230511 | 22685 | 10 | 1.0000 | 605.16 |
| 240515 | 4024 | 1 | 1.0000 | 1002.54 |
| 240516 | 12334 | 3 | 1.0000 | 466.42 |
| 240532 | 408 | 1 | 1.5000 | 496.27 |
| 240536 | 11057 | 6 | 1.0000 | 983.09 |
| 240546 | 13522 | 7 | 1.0000 | 401.16 |
| 250283 | 8952 | 3 | 1.0000 | 389.21 |
| 250285 | 788 | 1 | 1.5000 | 1197.22 |
| 250311 | 1791 | 4 | 1.0000 | 753.63 |
| 250312 | 6028 | 1 | 1.0000 | 302.98 |
| 260398 | 19464 | 8 | 1.0000 | 321.50 |
| 260408 | 5809 | 3 | 1.0000 | 577.95 |
| 260414 | 13848 | 7 | 1.0000 | 737.07 |
| 260417 | 1680 | 1 | 2.5000 | 542.67 |
| 260419 | 6685 | 6 | 1.0000 | 512.85 |
| 270428 | 953 | 1 | 3.6319 | 622.28 |

Appendix B
2012 Average Schedule USF Study
Sample Average Schedule Study Areas
Underlying data - Cost per Loop Calculation

| Study Area Code | Actual USF Loop Count | Exchange Count | Sample Weight | Actual Cost per Loop |
|-----------------|-----------------------|----------------|---------------|----------------------|
| 280451 | 1413 | 1 | 2.5000 | 838.41 |
| 290553 | 29131 | 17 | 1.0000 | 634.40 |
| 290554 | 10316 | 5 | 1.0000 | 541.50 |
| 290565 | 20462 | 10 | 1.0000 | 637.45 |
| 290570 | 4682 | 5 | 1.0000 | 653.14 |
| 290598 | 1229 | 4 | 1.0000 | 755.41 |
| 300585 | 511 | 1 | 4.0354 | 1010.64 |
| 300588 | 903 | 1 | 1.0000 | 668.21 |
| 300590 | 894 | 3 | 2.5000 | 1022.27 |
| 300604 | 1171 | 1 | 2.7658 | 524.25 |
| 300609 | 2280 | 1 | 2.5000 | 619.13 |
| 300614 | 731 | 1 | 4.8311 | 677.96 |
| 300625 | 1292 | 1 | 4.1703 | 514.07 |
| 300633 | 517 | 1 | 1.5000 | 515.02 |
| 300645 | 978 | 1 | 1.5000 | 468.83 |
| 300656 | 1051 | 1 | 4.3101 | 862.71 |
| 300659 | 6581 | 2 | 1.0000 | 524.78 |
| 300663 | 268 | 1 | 3.1295 | 623.79 |
| 310669 | 3740 | 1 | 1.0000 | 594.59 |
| 310675 | 4052 | 4 | 2.5000 | 691.86 |
| 310676 | 6285 | 4 | 2.5000 | 379.88 |
| 310678 | 1093 | 1 | 3.9856 | 439.46 |
| 310688 | 1049 | 1 | 1.0000 | 533.81 |
| 310692 | 553 | 1 | 4.9005 | 956.66 |
| 310703 | 1606 | 4 | 1.5000 | 705.13 |
| 310735 | 912 | 1 | 1.0000 | 610.21 |
| 320744 | 1316 | 3 | 1.0000 | 798.78 |
| 320751 | 1889 | 2 | 2.8422 | 1001.11 |
| 320777 | 1760 | 1 | 2.5000 | 612.02 |
| 320809 | 1358 | 3 | 1.5000 | 595.85 |
| 320829 | 3113 | 1 | 1.0000 | 542.44 |
| 320830 | 2571 | 4 | 1.0000 | 724.42 |
| 330842 | 5082 | 3 | 1.0000 | 344.38 |
| 330848 | 182 | 2 | 2.0000 | 1627.70 |
| 330865 | 1343 | 1 | 2.5890 | 440.50 |
| 330868 | 2017 | 3 | 3.0095 | 579.97 |
| 330880 | 5327 | 4 | 2.5000 | 389.36 |
| 330881 | 25361 | 2 | 1.0000 | 447.59 |
| 330889 | 1623 | 2 | 2.7038 | 501.08 |
| 330900 | 2687 | 2 | 1.0000 | 1139.16 |
| 330925 | 1920 | 1 | 2.5000 | 742.30 |
| 330938 | 5690 | 4 | 1.0000 | 464.12 |
| 330944 | 7682 | 2 | 1.0000 | 347.77 |
| 330946 | 865 | 2 | 1.0000 | 725.20 |
| 330951 | 2424 | 1 | 2.5000 | 258.21 |
| 330955 | 7722 | 1 | 1.0000 | 445.71 |

Appendix B
2012 Average Schedule USF Study
Sample Average Schedule Study Areas
Underlying data - Cost per Loop Calculation

| Study Area Code | Actual USF Loop Count | Exchange Count | Sample Weight | Actual Cost per Loop |
|-----------------|-----------------------|----------------|---------------|----------------------|
| 330967 | 2689 | 1 | 1.0000 | 330.85 |
| 330968 | 5961 | 1 | 2.5000 | 531.46 |
| 330970 | 4832 | 5 | 2.5000 | 548.10 |
| 340976 | 3301 | 13 | 1.0000 | 845.00 |
| 341017 | 999 | 1 | 4.0100 | 566.39 |
| 341021 | 95 | 1 | 1.5000 | 446.44 |
| 341024 | 1740 | 7 | 1.0000 | 1029.34 |
| 341046 | 154 | 1 | 3.7537 | 847.94 |
| 341050 | 2335 | 1 | 1.0000 | 670.80 |
| 341092 | 72 | 1 | 3.9819 | 619.92 |
| 351097 | 275 | 1 | 1.5000 | 758.02 |
| 351101 | 863 | 1 | 1.0000 | 654.60 |
| 351112 | 965 | 3 | 1.0000 | 780.09 |
| 351113 | 1285 | 1 | 4.3124 | 363.51 |
| 351115 | 2131 | 4 | 1.0000 | 592.87 |
| 351118 | 1619 | 2 | 1.0000 | 925.39 |
| 351119 | 342 | 1 | 1.5000 | 579.60 |
| 351125 | 4165 | 3 | 1.0000 | 377.32 |
| 351130 | 609 | 1 | 5.3500 | 1477.73 |
| 351133 | 746 | 4 | 1.0000 | 816.96 |
| 351136 | 509 | 1 | 2.5000 | 356.16 |
| 351137 | 512 | 2 | 1.0000 | 932.36 |
| 351139 | 1260 | 4 | 1.0000 | 710.50 |
| 351146 | 297 | 1 | 2.0000 | 843.02 |
| 351150 | 477 | 1 | 2.0000 | 1249.80 |
| 351152 | 1278 | 2 | 1.0000 | 703.41 |
| 351153 | 613 | 1 | 5.7194 | 599.25 |
| 351157 | 621 | 2 | 1.0000 | 744.83 |
| 351160 | 912 | 2 | 1.5000 | 538.94 |
| 351162 | 1091 | 2 | 1.0000 | 556.36 |
| 351169 | 436 | 1 | 2.0000 | 1514.13 |
| 351173 | 2008 | 4 | 1.0000 | 633.12 |
| 351175 | 400 | 1 | 2.5528 | 869.44 |
| 351177 | 1307 | 4 | 1.5000 | 571.83 |
| 351179 | 273 | 1 | 2.5593 | 612.91 |
| 351188 | 460 | 1 | 1.0000 | 696.50 |
| 351189 | 760 | 2 | 1.0000 | 1258.36 |
| 351195 | 1654 | 4 | 1.0000 | 658.21 |
| 351213 | 494 | 2 | 1.0000 | 1069.65 |
| 351217 | 896 | 3 | 1.0000 | 1047.98 |
| 351225 | 1512 | 4 | 1.0000 | 917.89 |
| 351228 | 230 | 1 | 2.8298 | 555.83 |
| 351230 | 1676 | 3 | 1.0000 | 601.45 |
| 351232 | 501 | 1 | 1.0000 | 807.35 |
| 351237 | 1240 | 4 | 1.0000 | 606.28 |
| 351238 | 261 | 1 | 2.7240 | 808.06 |

Appendix B
2012 Average Schedule USF Study
Sample Average Schedule Study Areas
Underlying data - Cost per Loop Calculation

| Study Area Code | Actual USF Loop Count | Exchange Count | Sample Weight | Actual Cost per Loop |
|-----------------|-----------------------|----------------|---------------|----------------------|
| 351246 | 634 | 2 | 1.0000 | 781.11 |
| 351247 | 782 | 4 | 2.5000 | 746.36 |
| 351250 | 506 | 1 | 1.0000 | 598.93 |
| 351252 | 3921 | 1 | 1.0000 | 611.75 |
| 351259 | 1914 | 7 | 1.0000 | 701.01 |
| 351261 | 1031 | 4 | 1.0000 | 675.05 |
| 351266 | 234 | 1 | 1.5000 | 999.06 |
| 351270 | 254 | 1 | 1.0000 | 1040.00 |
| 351271 | 1676 | 1 | 1.0000 | 963.33 |
| 351274 | 1244 | 1 | 1.0000 | 400.59 |
| 351275 | 179 | 1 | 1.5000 | 603.78 |
| 351276 | 980 | 2 | 1.0000 | 856.51 |
| 351277 | 428 | 1 | 1.0000 | 1114.32 |
| 351280 | 330 | 1 | 2.0000 | 967.70 |
| 351283 | 366 | 1 | 1.0000 | 1112.25 |
| 351285 | 891 | 2 | 1.0000 | 572.39 |
| 351291 | 1495 | 4 | 1.0000 | 924.17 |
| 351292 | 207 | 1 | 1.0000 | 1708.21 |
| 351293 | 914 | 2 | 1.0000 | 853.06 |
| 351294 | 454 | 1 | 1.0000 | 970.29 |
| 351298 | 10419 | 6 | 2.5000 | 649.15 |
| 351301 | 586 | 3 | 1.0000 | 536.01 |
| 351302 | 1034 | 1 | 4.6468 | 639.62 |
| 351306 | 1168 | 1 | 1.0000 | 439.86 |
| 351319 | 2230 | 6 | 1.0000 | 464.10 |
| 351320 | 472 | 1 | 1.0000 | 1110.88 |
| 351322 | 395 | 1 | 1.5000 | 477.46 |
| 351324 | 790 | 2 | 1.0000 | 1029.47 |
| 351331 | 4163 | 6 | 1.0000 | 528.30 |
| 351334 | 3160 | 8 | 1.0000 | 787.56 |
| 351343 | 521 | 1 | 1.0000 | 634.16 |
| 351405 | 1979 | 7 | 1.0000 | 808.83 |
| 361389 | 939 | 4 | 1.0000 | 1802.63 |
| 361390 | 2053 | 7 | 1.0000 | 1206.79 |
| 361401 | 1709 | 10 | 1.0000 | 987.51 |
| 361405 | 583 | 3 | 1.0000 | 573.18 |
| 361409 | 8589 | 1 | 1.0000 | 365.05 |
| 361424 | 693 | 2 | 2.5000 | 676.92 |
| 361430 | 8603 | 8 | 2.5000 | 536.26 |
| 361431 | 2184 | 4 | 2.5000 | 533.48 |
| 361439 | 743 | 3 | 1.0000 | 897.48 |
| 361440 | 1667 | 4 | 1.0000 | 529.69 |
| 361450 | 3709 | 6 | 2.5000 | 580.80 |
| 361474 | 478 | 1 | 2.5000 | 705.61 |
| 361475 | 3618 | 9 | 1.0000 | 661.38 |
| 361476 | 392 | 1 | 1.5000 | 342.51 |

Appendix B
2012 Average Schedule USF Study
Sample Average Schedule Study Areas
Underlying data - Cost per Loop Calculation

| Study Area Code | Actual USF Loop Count | Exchange Count | Sample Weight | Actual Cost per Loop |
|-----------------|-----------------------|----------------|---------------|----------------------|
| 361479 | 11613 | 3 | 1.0000 | 521.97 |
| 361485 | 1178 | 2 | 1.5000 | 1164.15 |
| 361494 | 874 | 1 | 3.4863 | 1178.53 |
| 361495 | 663 | 2 | 1.0000 | 719.61 |
| 361500 | 45 | 1 | 2.0000 | 1073.09 |
| 361502 | 1886 | 2 | 3.5632 | 367.32 |
| 361505 | 5365 | 18 | 1.0000 | 919.25 |
| 361654 | 1482 | 3 | 1.0000 | 419.39 |
| 371530 | 1261 | 5 | 1.0000 | 874.14 |
| 371555 | 5039 | 9 | 1.0000 | 561.02 |
| 371562 | 912 | 3 | 1.0000 | 1030.39 |
| 371563 | 888 | 2 | 1.5000 | 641.41 |
| 371581 | 1482 | 2 | 1.0000 | 560.56 |
| 381601 | 60 | 1 | 2.0000 | 615.87 |
| 381614 | 1876 | 6 | 1.0000 | 574.69 |
| 381615 | 1701 | 4 | 1.0000 | 537.94 |
| 381622 | 800 | 2 | 1.0000 | 599.81 |
| 381625 | 5514 | 16 | 1.0000 | 770.52 |
| 381638 | 950 | 3 | 1.0000 | 1085.55 |
| 383303 | 33434 | 26 | 1.0000 | 573.52 |
| 391405 | 479 | 3 | 1.0000 | 1064.92 |
| 391640 | 1368 | 3 | 1.0000 | 600.97 |
| 391642 | 2584 | 5 | 1.0000 | 1035.25 |
| 391650 | 9096 | 1 | 1.0000 | 515.49 |
| 391653 | 318 | 1 | 1.5000 | 265.24 |
| 391654 | 11610 | 26 | 1.0000 | 813.98 |
| 391669 | 1934 | 6 | 1.0000 | 950.67 |
| 391671 | 2073 | 1 | 3.4998 | 550.60 |
| 391677 | 4212 | 5 | 1.0000 | 761.52 |
| 391682 | 362 | 2 | 1.0000 | 1067.12 |
| 391684 | 1467 | 2 | 1.0000 | 669.11 |
| 391688 | 948 | 3 | 1.0000 | 619.15 |
| 401712 | 5951 | 8 | 1.0000 | 504.46 |
| 401722 | 3107 | 8 | 1.0000 | 688.87 |
| 421206 | 823 | 4 | 1.0000 | 1139.42 |
| 421759 | 2094 | 6 | 1.0000 | 859.76 |
| 421876 | 162 | 1 | 2.0000 | 1120.51 |
| 421893 | 429 | 1 | 1.0000 | 1183.00 |
| 421900 | 1232 | 4 | 1.0000 | 629.71 |
| 421936 | 433 | 1 | 2.5000 | 776.52 |
| 421942 | 1525 | 3 | 1.0000 | 633.35 |
| 442043 | 592 | 2 | 2.5000 | 735.39 |
| 442107 | 6154 | 1 | 1.0000 | 527.72 |
| 462210 | 50 | 1 | 2.0000 | 1392.55 |
| 472227 | 1253 | 5 | 1.0000 | 565.25 |
| 502279 | 1425 | 1 | 2.7843 | 496.54 |

Appendix B
2012 Average Schedule USF Study
Sample Average Schedule Study Areas
Underlying data - Cost per Loop Calculation

| Study Area Code | Actual USF Loop Count | Exchange Count | Sample Weight | Actual Cost per Loop |
|-----------------|--------------------------|----------------|---------------|----------------------|
| 502283 | 2215 | 5 | 1.0000 | 698.24 |
| 613026 | 174 | 1 | 1.5000 | 369.43 |

Appendix B2
Cost Companies 2012 High Cost Loop Support Data
CAPEX and OPEX Benchmarks Released by the Commission

| Study Area | Loops | CAPEX per loop Benchmark | OPEX per loop Benchmark |
|------------|-------|-----------------------------|----------------------------|
| 1 | 9599 | | 317.922260 |
| 2 | 4236 | 121.147492 | 339.033132 |
| 3 | 1604 | | 644.690582 |
| 4 | 18892 | | 283.947578 |
| 5 | 17966 | 187.440562 | 311.188039 |
| 6 | 1812 | 189.384179 | |
| 7 | 2595 | 256.474102 | |
| 8 | 1454 | 260.709306 | |
| 9 | 7172 | | 477.235139 |
| 10 | 9271 | 465.936456 | 631.045351 |
| 11 | 21111 | | 466.139901 |
| 12 | 10736 | 365.285104 | |
| 13 | 12786 | 442.506908 | 508.514226 |
| 14 | 10816 | 1190.081207 | |
| 15 | 2987 | 316.066692 | 610.441504 |
| 16 | 2454 | 465.044856 | |
| 17 | 7736 | | 555.087922 |
| 18 | 25995 | 442.437817 | |
| 19 | 29761 | 330.234601 | 437.656569 |
| 20 | 2711 | | 1096.264756 |
| 21 | 3228 | | 965.515398 |
| 22 | 278 | 620.958447 | |
| 23 | 777 | | 1123.560560 |
| 24 | 3025 | 363.858401 | |
| 25 | 15081 | 278.789893 | 347.001360 |
| 26 | 22465 | 371.468286 | 385.748318 |
| 27 | 974 | | 819.172234 |
| 28 | 1916 | | 754.342486 |
| 29 | 2618 | | 698.866900 |
| 30 | 6123 | 708.417787 | |
| 31 | 24858 | | 486.451852 |
| 32 | 5296 | | 343.967512 |

Appendix B2
Cost Companies 2012 High Cost Loop Support Data
CAPEX and OPEX Benchmarks Released by the Commission

| Study Area | Loops | CAPEX per loop Benchmark | OPEX per loop Benchmark |
|------------|-------|-----------------------------|----------------------------|
| 33 | 4703 | 708.757415 | |
| 34 | 3278 | 829.893662 | |
| 35 | 7172 | | 290.721932 |
| 36 | 3776 | 246.798595 | |
| 37 | 10548 | | 357.042025 |
| 38 | 3714 | 684.140830 | |
| 39 | 3702 | | 1045.128410 |
| 40 | 1021 | | 1121.659950 |
| 41 | 1462 | | 1056.919749 |
| 42 | 4934 | 416.595720 | |
| 43 | 689 | 590.537667 | |
| 44 | 11502 | | 312.197686 |
| 45 | 15560 | 315.059284 | 298.445168 |
| 46 | 1769 | 905.574658 | |
| 47 | 1489 | 497.890268 | |
| 48 | 1696 | 271.811015 | |
| 49 | 2801 | 324.680887 | |
| 50 | 1921 | | 808.291037 |
| 51 | 918 | 719.258717 | |
| 52 | 2165 | 844.580601 | |
| 53 | 744 | 984.157727 | |
| 54 | 445 | | 1357.256056 |
| 55 | 1118 | | 1186.158862 |
| 56 | 634 | 583.533004 | 1109.357325 |
| 57 | 414 | | 1146.532551 |
| 58 | 743 | | 1385.477805 |
| 59 | 3479 | 1188.474916 | |
| 60 | 8110 | 393.611198 | |
| 61 | 4418 | | 800.236665 |
| 62 | 2677 | 1511.726810 | 1202.682106 |
| 63 | 1370 | | 1167.645617 |
| 64 | 1714 | | 1345.135197 |

Appendix B2
Cost Companies 2012 High Cost Loop Support Data
CAPEX and OPEX Benchmarks Released by the Commission

| Study Area | Loops | CAPEX per loop Benchmark | OPEX per loop Benchmark |
|------------|-------|-----------------------------|----------------------------|
| 65 | 1853 | 1122.671032 | |
| 66 | 322 | | 2355.891108 |
| 67 | 1319 | 629.603788 | 1031.000075 |
| 68 | 8433 | 711.604066 | 834.692541 |
| 69 | 2465 | 795.083744 | 1165.962022 |
| 70 | 711 | 564.403603 | 1306.712054 |
| 71 | 3998 | 696.007450 | 1047.822886 |
| 72 | 2865 | 846.379980 | |
| 73 | 4791 | 738.662426 | |
| 74 | 6487 | | 927.515050 |
| 75 | 297 | 1645.708035 | 2358.508293 |
| 76 | 6839 | | 962.235305 |
| 77 | 3492 | 702.512656 | 1156.491718 |
| 78 | 217 | 1150.650418 | 2761.117761 |
| 79 | 986 | 580.793635 | |
| 80 | 6599 | 694.919832 | |
| 81 | 833 | 2161.723537 | 2837.060765 |
| 82 | 12147 | | 585.117915 |
| 83 | 96 | 5207.150854 | 6971.823181 |
| 84 | 816 | | 1529.151682 |
| 85 | 521 | 3809.770919 | |
| 86 | 988 | | 1303.855588 |
| 87 | 561 | 1560.613705 | 1359.640612 |
| 88 | 167 | 1197.342503 | 2159.773137 |
| 89 | 2314 | 902.281471 | |
| 90 | 4017 | 513.012846 | 608.800284 |
| 91 | 2333 | | 750.175043 |
| 92 | 1183 | | 1809.318790 |
| 93 | 690 | 1307.661634 | |
| 94 | 4597 | 454.049042 | |
| 95 | 2675 | | 700.855534 |
| 96 | 5969 | | 692.909746 |

Appendix B2
Cost Companies 2012 High Cost Loop Support Data
CAPEX and OPEX Benchmarks Released by the Commission

| Study Area | Loops | CAPEX per loop Benchmark | OPEX per loop Benchmark |
|------------|-------|-----------------------------|----------------------------|
| 97 | 20 | 5806.939678 | 7833.935014 |
| 98 | 2689 | 340.063935 | |
| 99 | 3195 | 353.444424 | |
| 100 | 1110 | 748.876211 | |
| 101 | 1020 | 2202.901456 | |
| 102 | 1608 | 1001.697523 | |
| 103 | 58287 | 248.853480 | |
| 104 | 2688 | 341.294895 | 876.500748 |
| 105 | 46922 | 327.423556 | |
| 106 | 2334 | 2262.507253 | 3535.952365 |

Appendix C
2012 Average Schedule USF Study
Comparison of Current and Proposed Monthly HCL Cost per Loop Model Payments

| Obs | Study Area Code | Loops | Exch | Loops per Exch | Current Payments | Formula CAPEX per Loop Benchmark | CAPEX per Loop | Formula OPEX per Loop Benchmark | OPEX per Loop | Proposed Cost per Loop | Monthly Payment (Fund Cap Appl.) | Per Loop Payment Difference | Payment Percent Difference |
|-----|--------------------|-------|------|-------------------|---------------------|--|-------------------|---------------------------------------|------------------|------------------------------|---|-----------------------------------|----------------------------------|
| 1 | 100005 | 495 | 1 | 495 | 1,051 | 1051.21 | 321.54 | 1,608.06 | 385.77 | 707.31 | 1,957 | 1.94 | 86.20 |
| 2 | 100019 | 4847 | 6 | 808 | 1,720 | 492.79 | 302.45 | 607.26 | 362.87 | 665.32 | 8,137 | 1.34 | 373.08 |
| 3 | 100020 | 3818 | 3 | 1273 | 0 | 624.83 | 275.14 | 843.89 | 330.10 | 605.24 | 0 | 0.00 | 0.00 |
| 4 | 100022 | 4966 | 3 | 1655 | 0 | 477.53 | 252.70 | 579.89 | 303.18 | 555.88 | 0 | 0.00 | 0.00 |
| 5 | 120042 | 425 | 1 | 425 | 1,534 | 1060.19 | 335.50 | 1,624.16 | 402.52 | 738.02 | 2,387 | 2.31 | 55.61 |
| 6 | 120043 | 1554 | 1 | 1554 | 0 | 915.33 | 258.63 | 1,364.53 | 310.30 | 568.93 | 0 | 0.00 | 0.00 |
| 7 | 140053 | 824 | 1 | 824 | 339 | 1009.00 | 301.51 | 1,532.41 | 361.74 | 663.25 | 1,291 | 1.16 | 280.83 |
| 8 | 140064 | 3367 | 6 | 561 | 6,022 | 682.70 | 316.96 | 947.61 | 380.28 | 697.24 | 11,474 | 1.66 | 90.53 |
| 9 | 150076 | 947 | 1 | 947 | 0 | 993.22 | 294.28 | 1,504.12 | 353.08 | 647.36 | 669 | 0.71 | 100.00 |
| 10 | 150125 | 6099 | 2 | 3050 | 0 | 409.01 | 239.20 | 457.09 | 250.98 | 490.18 | 0 | 0.00 | 0.00 |
| 11 | 170156 | 3821 | 1 | 3821 | 0 | 624.44 | 215.78 | 843.20 | 258.89 | 474.67 | 0 | 0.00 | 0.00 |
| 12 | 170171 | 1173 | 1 | 1173 | 0 | 964.22 | 281.01 | 1,452.15 | 337.15 | 618.16 | 0 | 0.00 | 0.00 |
| 13 | 170175 | 3913 | 1 | 3913 | 0 | 612.64 | 214.94 | 822.04 | 257.88 | 472.82 | 0 | 0.00 | 0.00 |
| 14 | 170191 | 9636 | 8 | 1205 | 0 | 409.01 | 299.63 | 457.09 | 314.39 | 614.02 | 0 | 0.00 | 0.00 |
| 15 | 170195 | 442 | 1 | 442 | 1,534 | 1058.01 | 332.11 | 1,620.25 | 398.45 | 730.56 | 2,304 | 1.91 | 50.20 |
| 16 | 170196 | 6585 | 4 | 1646 | 0 | 409.01 | 271.82 | 457.09 | 285.22 | 557.04 | 0 | 0.00 | 0.00 |
| 17 | 170197 | 1268 | 1 | 1268 | 0 | 952.03 | 275.43 | 1,430.30 | 330.45 | 605.88 | 0 | 0.00 | 0.00 |
| 18 | 170200 | 1528 | 1 | 1528 | 0 | 918.67 | 260.16 | 1,370.51 | 312.13 | 572.29 | 0 | 0.00 | 0.00 |
| 19 | 170204 | 2296 | 2 | 1148 | 0 | 820.12 | 282.48 | 1,193.90 | 338.91 | 621.39 | 0 | 0.00 | 0.00 |
| 20 | 170210 | 1182 | 1 | 1182 | 0 | 963.06 | 280.48 | 1,450.08 | 336.52 | 617.00 | 0 | 0.00 | 0.00 |
| 21 | 170277 | 35 | 1 | 35 | 716 | 1110.24 | 413.27 | 1,713.85 | 495.83 | 909.10 | 545 | -2.79 | -23.88 |
| 22 | 190220 | 163 | 1 | 163 | 2,281 | 1093.81 | 387.74 | 1,684.41 | 465.21 | 852.95 | 1,965 | -1.36 | -13.85 |
| 23 | 190225 | 6986 | 5 | 1397 | 0 | 409.01 | 287.52 | 457.09 | 301.69 | 589.21 | 0 | 0.00 | 0.00 |
| 24 | 190226 | 23269 | 4 | 5817 | 0 | 409.01 | 212.04 | 457.09 | 222.48 | 434.52 | 0 | 0.00 | 0.00 |
| 25 | 190237 | 1311 | 3 | 437 | 5,185 | 946.51 | 333.11 | 1,420.41 | 399.65 | 732.76 | 6,990 | 1.47 | 34.81 |
| 26 | 190238 | 1606 | 5 | 321 | 12,924 | 908.66 | 356.24 | 1,352.57 | 427.40 | 783.64 | 12,989 | -0.17 | 0.50 |
| 27 | 190239 | 773 | 1 | 773 | 483 | 1015.54 | 304.50 | 1,544.13 | 365.34 | 669.84 | 1,487 | 1.32 | 207.87 |
| 28 | 190243 | 2569 | 2 | 1285 | 0 | 785.09 | 274.43 | 1,131.12 | 329.26 | 603.69 | 0 | 0.00 | 0.00 |
| 29 | 190250 | 22694 | 9 | 2522 | 0 | 409.01 | 244.38 | 457.09 | 256.42 | 500.80 | 0 | 0.00 | 0.00 |
| 30 | 190253 | 1903 | 1 | 1903 | 0 | 870.55 | 238.13 | 1,284.27 | 285.70 | 523.83 | 0 | 0.00 | 0.00 |
| 31 | 197251 | 871 | 1 | 871 | 26 | 1002.97 | 298.75 | 1,521.60 | 358.43 | 657.18 | 1,078 | 1.21 | 4046.15 |
| 32 | 200258 | 1303 | 1 | 1303 | 0 | 947.54 | 273.37 | 1,422.25 | 327.99 | 601.36 | 0 | 0.00 | 0.00 |
| 33 | 220324 | 2589 | 1 | 2589 | 0 | 782.53 | 227.05 | 1,126.52 | 272.40 | 499.45 | 0 | 0.00 | 0.00 |
| 34 | 220380 | 4599 | 6 | 767 | 2,899 | 524.62 | 304.86 | 664.29 | 365.76 | 670.62 | 9,041 | 1.36 | 211.87 |
| 35 | 220389 | 4597 | 3 | 1532 | 0 | 524.87 | 259.92 | 664.75 | 311.85 | 571.77 | 0 | 0.00 | 0.00 |
| 36 | 230478 | 1660 | 1 | 1660 | 0 | 901.73 | 252.40 | 1,340.16 | 302.83 | 555.23 | 0 | 0.00 | 0.00 |
| 37 | 230491 | 71055 | 3 | 23685 | 0 | 409.01 | 190.60 | 457.09 | 200.00 | 390.60 | 0 | 0.00 | 0.00 |

Appendix C
2012 Average Schedule USF Study
Comparison of Current and Proposed Monthly HCL Cost per Loop Model Payments

| Obs | Study Area Code | Loops | Exch | Loops per Exch | Current Payments | Formula CAPEX per Loop Benchmark | CAPEX per Loop | Formula OPEX per Loop Benchmark | OPEX per Loop | Proposed Cost per Loop | Monthly Payment (Fund Cap Appl.) | Per Loop Payment Difference | Payment Percent Difference |
|-----|--------------------|-------|------|-------------------|---------------------|--|-------------------|---------------------------------------|------------------|------------------------------|---|-----------------------------------|----------------------------------|
| 38 | 230494 | 1392 | 1 | 1392 | 0 | 936.12 | 268.15 | 1,401.79 | 321.71 | 589.86 | 0 | 0.00 | 0.00 |
| 39 | 230495 | 3524 | 1 | 3524 | 0 | 662.55 | 218.50 | 911.50 | 262.14 | 480.64 | 0 | 0.00 | 0.00 |
| 40 | 230496 | 8761 | 7 | 1252 | 0 | 409.01 | 296.67 | 457.09 | 311.28 | 607.95 | 0 | 0.00 | 0.00 |
| 41 | 230497 | 2395 | 2 | 1198 | 0 | 807.42 | 279.54 | 1,171.13 | 335.39 | 614.93 | 0 | 0.00 | 0.00 |
| 42 | 230500 | 839 | 1 | 839 | 0 | 1007.07 | 300.63 | 1,528.96 | 360.69 | 661.32 | 1,227 | 1.46 | 100.00 |
| 43 | 230501 | 31475 | 12 | 2623 | 0 | 409.01 | 243.39 | 457.09 | 255.38 | 498.77 | 0 | 0.00 | 0.00 |
| 44 | 230503 | 12324 | 6 | 2054 | 0 | 409.01 | 248.97 | 457.09 | 261.24 | 510.21 | 0 | 0.00 | 0.00 |
| 45 | 230505 | 2595 | 3 | 865 | 0 | 781.76 | 299.10 | 1,125.14 | 358.86 | 657.96 | 3,322 | 1.28 | 100.00 |
| 46 | 230511 | 22747 | 10 | 2275 | 0 | 409.01 | 246.80 | 457.09 | 258.97 | 505.77 | 0 | 0.00 | 0.00 |
| 47 | 240515 | 3872 | 1 | 3872 | 0 | 617.90 | 215.31 | 831.47 | 258.33 | 473.64 | 0 | 0.00 | 0.00 |
| 48 | 240516 | 12707 | 3 | 4236 | 0 | 409.01 | 227.55 | 457.09 | 238.77 | 466.32 | 0 | 0.00 | 0.00 |
| 49 | 240532 | 413 | 1 | 413 | 1,832 | 1061.73 | 337.89 | 1,626.92 | 405.39 | 743.28 | 2,437 | 1.71 | 33.02 |
| 50 | 240535 | 585 | 1 | 585 | 914 | 1039.66 | 315.55 | 1,587.37 | 378.59 | 694.14 | 1,895 | 1.79 | 107.33 |
| 51 | 240536 | 11437 | 6 | 1906 | 0 | 409.01 | 255.43 | 457.09 | 268.01 | 523.44 | 0 | 0.00 | 0.00 |
| 52 | 240541 | 1849 | 1 | 1849 | 0 | 877.48 | 241.30 | 1,296.69 | 289.51 | 530.81 | 0 | 0.00 | 0.00 |
| 53 | 240546 | 14476 | 7 | 2068 | 0 | 409.01 | 248.83 | 457.09 | 261.10 | 509.93 | 0 | 0.00 | 0.00 |
| 54 | 250283 | 8990 | 3 | 2997 | 0 | 409.01 | 239.71 | 457.09 | 251.53 | 491.24 | 0 | 0.00 | 0.00 |
| 55 | 250285 | 782 | 1 | 782 | 365 | 1014.39 | 303.98 | 1,542.07 | 364.70 | 668.68 | 1,455 | 1.42 | 298.63 |
| 56 | 250311 | 1785 | 4 | 446 | 5,748 | 885.69 | 331.31 | 1,311.41 | 397.50 | 728.81 | 9,135 | 2.07 | 58.92 |
| 57 | 250312 | 6026 | 1 | 6026 | 0 | 409.01 | 209.98 | 457.09 | 220.33 | 430.31 | 0 | 0.00 | 0.00 |
| 58 | 250322 | 3462 | 4 | 866 | 0 | 670.51 | 299.04 | 925.76 | 358.79 | 657.83 | 4,407 | 1.27 | 100.00 |
| 59 | 260398 | 18582 | 8 | 2323 | 0 | 409.01 | 246.33 | 457.09 | 258.47 | 504.80 | 0 | 0.00 | 0.00 |
| 60 | 260408 | 5797 | 3 | 1932 | 0 | 409.01 | 253.79 | 457.09 | 266.29 | 520.08 | 0 | 0.00 | 0.00 |
| 61 | 260412 | 1201 | 1 | 1201 | 0 | 960.62 | 279.36 | 1,445.71 | 335.18 | 614.54 | 0 | 0.00 | 0.00 |
| 62 | 260417 | 1706 | 1 | 1706 | 0 | 895.83 | 249.70 | 1,329.58 | 299.59 | 549.29 | 0 | 0.00 | 0.00 |
| 63 | 260419 | 6676 | 6 | 1113 | 0 | 409.01 | 305.43 | 457.09 | 320.48 | 625.91 | 0 | 0.00 | 0.00 |
| 64 | 270428 | 938 | 1 | 938 | 0 | 994.37 | 294.81 | 1,506.19 | 353.71 | 648.52 | 721 | 0.77 | 100.00 |
| 65 | 280451 | 1490 | 1 | 1490 | 0 | 923.54 | 262.39 | 1,379.25 | 314.81 | 577.20 | 0 | 0.00 | 0.00 |
| 66 | 280467 | 707 | 1 | 707 | 721 | 1024.01 | 308.38 | 1,559.31 | 369.99 | 678.37 | 1,687 | 1.38 | 133.98 |
| 67 | 287449 | 592 | 1 | 592 | 919 | 1038.77 | 315.14 | 1,585.76 | 378.09 | 693.23 | 1,889 | 1.73 | 105.55 |
| 68 | 290553 | 30130 | 17 | 1772 | 0 | 409.01 | 263.88 | 457.09 | 276.88 | 540.76 | 0 | 0.00 | 0.00 |
| 69 | 290554 | 10820 | 5 | 2164 | 0 | 409.01 | 247.89 | 457.09 | 260.11 | 508.00 | 0 | 0.00 | 0.00 |
| 70 | 290565 | 20340 | 10 | 2034 | 0 | 409.01 | 249.17 | 457.09 | 261.44 | 510.61 | 0 | 0.00 | 0.00 |
| 71 | 290570 | 4709 | 5 | 942 | 0 | 510.50 | 294.58 | 638.99 | 353.43 | 648.01 | 3,490 | 0.74 | 100.00 |
| 72 | 290598 | 1167 | 4 | 292 | 10,377 | 964.99 | 362.02 | 1,453.53 | 434.34 | 796.36 | 10,242 | 0.36 | -1.30 |
| 73 | 300585 | 479 | 1 | 479 | 1,060 | 1053.27 | 324.73 | 1,611.74 | 389.60 | 714.33 | 2,076 | 2.25 | 95.85 |
| 74 | 300586 | 1026 | 1 | 1026 | 0 | 983.08 | 289.64 | 1,485.95 | 347.51 | 637.15 | 157 | 0.15 | 100.00 |

Appendix C
2012 Average Schedule USF Study
Comparison of Current and Proposed Monthly HCL Cost per Loop Model Payments

| Obs | Study Area Code | Loops | Exch | Loops per Exch | Current Payments | Formula CAPEX per Loop Benchmark | CAPEX per Loop | Formula OPEX per Loop Benchmark | OPEX per Loop | Proposed Cost per Loop | Monthly Payment (Fund Cap Appl.) | Per Loop Payment Difference | Payment Percent Difference |
|-----|--------------------|-------|------|-------------------|---------------------|--|-------------------|---------------------------------------|------------------|------------------------------|---|-----------------------------------|----------------------------------|
| 75 | 300588 | 890 | 1 | 890 | 0 | 1000.53 | 297.63 | 1,517.23 | 357.10 | 654.73 | 984 | 1.11 | 100.00 |
| 76 | 300589 | 633 | 1 | 633 | 867 | 1033.51 | 312.73 | 1,576.33 | 375.20 | 687.93 | 1,838 | 1.58 | 112.00 |
| 77 | 300590 | 876 | 3 | 292 | 7,775 | 1002.33 | 362.02 | 1,520.45 | 434.34 | 796.36 | 7,688 | 0.43 | -1.12 |
| 78 | 300591 | 597 | 1 | 597 | 908 | 1038.12 | 314.85 | 1,584.61 | 377.74 | 692.59 | 1,884 | 1.73 | 107.49 |
| 79 | 300609 | 2234 | 1 | 2234 | 0 | 828.08 | 230.29 | 1,208.16 | 276.30 | 506.59 | 0 | 0.00 | 0.00 |
| 80 | 300614 | 747 | 1 | 747 | 570 | 1018.88 | 306.03 | 1,550.11 | 367.17 | 673.20 | 1,573 | 1.36 | 175.96 |
| 81 | 300619 | 1092 | 1 | 1092 | 0 | 974.61 | 285.77 | 1,470.78 | 342.85 | 628.62 | 0 | 0.00 | 0.00 |
| 82 | 300625 | 1404 | 1 | 1404 | 0 | 934.58 | 267.44 | 1,399.03 | 320.87 | 588.31 | 0 | 0.00 | 0.00 |
| 83 | 300633 | 531 | 1 | 531 | 1,040 | 1046.59 | 318.72 | 1,599.79 | 382.39 | 701.11 | 1,921 | 1.68 | 84.71 |
| 84 | 300634 | 2840 | 1 | 2840 | 0 | 750.32 | 224.75 | 1,068.80 | 269.65 | 494.40 | 0 | 0.00 | 0.00 |
| 85 | 300639 | 1044 | 1 | 1044 | 0 | 980.77 | 288.59 | 1,481.81 | 346.24 | 634.83 | 28 | 0.03 | 100.00 |
| 86 | 300645 | 1007 | 1 | 1007 | 0 | 985.52 | 290.76 | 1,490.32 | 348.85 | 639.61 | 288 | 0.29 | 100.00 |
| 87 | 300650 | 1335 | 2 | 668 | 1,664 | 943.43 | 310.67 | 1,414.89 | 372.74 | 683.41 | 3,549 | 1.42 | 113.28 |
| 88 | 300651 | 319 | 1 | 319 | 2,455 | 1073.80 | 356.64 | 1,648.54 | 427.88 | 784.52 | 2,595 | 1.16 | 5.70 |
| 89 | 300654 | 660 | 1 | 660 | 854 | 1030.04 | 311.15 | 1,570.12 | 373.30 | 684.45 | 1,792 | 1.43 | 109.84 |
| 90 | 300656 | 1047 | 1 | 1047 | 0 | 980.38 | 288.41 | 1,481.12 | 346.03 | 634.44 | 6 | 0.01 | 100.00 |
| 91 | 300659 | 6477 | 2 | 3239 | 0 | 409.01 | 237.34 | 457.09 | 249.03 | 486.37 | 0 | 0.00 | 0.00 |
| 92 | 300662 | 603 | 1 | 603 | 933 | 1037.35 | 314.49 | 1,583.23 | 377.32 | 691.81 | 1,878 | 1.61 | 101.29 |
| 93 | 300663 | 245 | 1 | 245 | 2,604 | 1083.29 | 371.39 | 1,665.56 | 445.59 | 816.98 | 2,424 | -0.12 | -6.91 |
| 94 | 300664 | 869 | 1 | 869 | 36 | 1003.22 | 298.87 | 1,522.06 | 358.57 | 657.44 | 1,088 | 1.21 | 2922.22 |
| 95 | 310675 | 4205 | 4 | 1051 | 0 | 575.17 | 288.17 | 754.89 | 345.75 | 633.92 | 0 | 0.00 | 0.00 |
| 96 | 310676 | 6017 | 4 | 1504 | 0 | 409.01 | 280.78 | 457.09 | 294.61 | 575.39 | 0 | 0.00 | 0.00 |
| 97 | 310678 | 1113 | 1 | 1113 | 0 | 971.92 | 284.53 | 1,465.95 | 341.38 | 625.91 | 0 | 0.00 | 0.00 |
| 98 | 310688 | 978 | 1 | 978 | 0 | 989.24 | 292.47 | 1,496.99 | 350.89 | 643.36 | 478 | 0.49 | 100.00 |
| 99 | 310694 | 554 | 1 | 554 | 959 | 1043.64 | 317.37 | 1,594.50 | 380.77 | 698.14 | 1,915 | 1.87 | 99.69 |
| 100 | 310703 | 1348 | 4 | 391 | 6,764 | 941.76 | 342.28 | 1,411.90 | 410.66 | 752.94 | 8,661 | 1.97 | 28.05 |
| 101 | 310725 | 938 | 1 | 938 | 0 | 994.37 | 294.81 | 1,506.19 | 353.71 | 648.52 | 721 | 0.77 | 100.00 |
| 102 | 310735 | 905 | 1 | 905 | 0 | 998.60 | 296.75 | 1,513.78 | 356.04 | 652.79 | 905 | 1.00 | 100.00 |
| 103 | 320744 | 1349 | 3 | 450 | 4,459 | 941.63 | 330.51 | 1,411.67 | 396.54 | 727.05 | 6,775 | 1.85 | 51.94 |
| 104 | 320751 | 1893 | 2 | 947 | 0 | 871.83 | 294.28 | 1,286.57 | 353.08 | 647.36 | 1,336 | 0.71 | 100.00 |
| 105 | 320756 | 849 | 1 | 849 | 72 | 1005.79 | 300.04 | 1,526.66 | 359.98 | 660.02 | 1,182 | 1.31 | 1541.67 |
| 106 | 320771 | 416 | 1 | 416 | 1,958 | 1061.35 | 337.29 | 1,626.23 | 404.68 | 741.97 | 2,426 | 1.21 | 23.90 |
| 107 | 320777 | 1775 | 1 | 1775 | 0 | 886.97 | 245.65 | 1,313.71 | 294.72 | 540.37 | 0 | 0.00 | 0.00 |
| 108 | 320778 | 1689 | 1 | 1689 | 0 | 898.01 | 250.70 | 1,333.49 | 300.78 | 551.48 | 0 | 0.00 | 0.00 |
| 109 | 320792 | 2298 | 1 | 2300 | 0 | 819.86 | 229.69 | 1,193.44 | 275.57 | 505.26 | 0 | 0.00 | 0.00 |
| 110 | 320796 | 553 | 1 | 553 | 971 | 1043.77 | 317.43 | 1,594.73 | 380.84 | 698.27 | 1,915 | 1.84 | 97.22 |
| 111 | 320809 | 1392 | 3 | 464 | 4,120 | 936.12 | 327.72 | 1,401.79 | 393.19 | 720.91 | 6,528 | 1.81 | 58.45 |

Appendix C
2012 Average Schedule USF Study
Comparison of Current and Proposed Monthly HCL Cost per Loop Model Payments

| Obs | Study Area Code | Loops | Exch | Loops per Exch | Current Payments | Formula CAPEX per Loop Benchmark | CAPEX per Loop | Formula OPEX per Loop Benchmark | OPEX per Loop | Proposed Cost per Loop | Monthly Payment (Fund Cap Appl.) | Per Loop Payment Difference | Payment Percent Difference |
|-----|--------------------|-------|------|-------------------|---------------------|--|-------------------|---------------------------------------|------------------|------------------------------|---|-----------------------------------|----------------------------------|
| 112 | 320816 | 329 | 1 | 329 | 2,490 | 1072.51 | 354.64 | 1,646.24 | 425.49 | 780.13 | 2,598 | 0.66 | 4.34 |
| 113 | 320826 | 677 | 1 | 677 | 504 | 1027.86 | 310.15 | 1,566.21 | 372.10 | 682.25 | 1,757 | 1.96 | 248.61 |
| 114 | 320827 | 1228 | 1 | 1228 | 0 | 957.16 | 277.78 | 1,439.50 | 333.27 | 611.05 | 0 | 0.00 | 0.00 |
| 115 | 320829 | 3083 | 1 | 3083 | 0 | 719.14 | 222.53 | 1,012.92 | 266.98 | 489.51 | 0 | 0.00 | 0.00 |
| 116 | 320830 | 2663 | 4 | 666 | 3,216 | 773.03 | 310.79 | 1,109.50 | 372.88 | 683.67 | 7,117 | 1.50 | 121.30 |
| 117 | 320837 | 713 | 1 | 713 | 735 | 1023.24 | 308.03 | 1,557.93 | 369.57 | 677.60 | 1,671 | 1.31 | 127.35 |
| 118 | 320839 | 704 | 1 | 704 | 660 | 1024.40 | 308.56 | 1,560.00 | 370.20 | 678.76 | 1,694 | 1.51 | 156.67 |
| 119 | 330842 | 5190 | 3 | 1730 | 0 | 448.78 | 248.29 | 528.38 | 297.90 | 546.19 | 0 | 0.00 | 0.00 |
| 120 | 330843 | 4457 | 3 | 1486 | 0 | 542.84 | 262.62 | 696.94 | 315.09 | 577.71 | 0 | 0.00 | 0.00 |
| 121 | 330846 | 3584 | 2 | 1792 | 0 | 654.85 | 244.65 | 897.70 | 293.52 | 538.17 | 0 | 0.00 | 0.00 |
| 122 | 330847 | 731 | 1 | 731 | 605 | 1020.93 | 306.97 | 1,553.79 | 368.30 | 675.27 | 1,621 | 1.42 | 167.93 |
| 123 | 330848 | 164 | 2 | 82 | 2,907 | 1093.68 | 403.90 | 1,684.18 | 484.58 | 888.48 | 2,341 | -2.24 | -19.47 |
| 124 | 330851 | 1495 | 1 | 1495 | 0 | 922.90 | 262.09 | 1,378.10 | 314.46 | 576.55 | 0 | 0.00 | 0.00 |
| 125 | 330856 | 2019 | 2 | 1010 | 0 | 855.66 | 290.58 | 1,257.60 | 348.64 | 639.22 | 535 | 0.26 | 100.00 |
| 126 | 330865 | 1364 | 1 | 1364 | 0 | 939.71 | 269.79 | 1,408.23 | 323.69 | 593.48 | 0 | 0.00 | 0.00 |
| 127 | 330868 | 2129 | 3 | 710 | 2,022 | 841.55 | 308.20 | 1,232.30 | 369.78 | 677.98 | 5,034 | 1.45 | 148.96 |
| 128 | 330872 | 1371 | 1 | 1371 | 0 | 938.81 | 269.38 | 1,406.62 | 323.19 | 592.57 | 0 | 0.00 | 0.00 |
| 129 | 330875 | 1096 | 1 | 1096 | 0 | 974.10 | 285.53 | 1,469.86 | 342.58 | 628.11 | 0 | 0.00 | 0.00 |
| 130 | 330879 | 2436 | 3 | 812 | 812 | 802.16 | 302.22 | 1,161.70 | 362.59 | 664.81 | 4,022 | 1.33 | 395.32 |
| 131 | 330880 | 5487 | 4 | 1372 | 0 | 410.67 | 269.32 | 460.08 | 323.12 | 592.44 | 0 | 0.00 | 0.00 |
| 132 | 330881 | 26532 | 2 | 13266 | 0 | 409.01 | 190.60 | 457.09 | 200.00 | 390.60 | 0 | 0.00 | 0.00 |
| 133 | 330889 | 1621 | 2 | 811 | 426 | 906.73 | 302.27 | 1,349.12 | 362.66 | 664.93 | 2,687 | 1.41 | 530.75 |
| 134 | 330896 | 1467 | 2 | 734 | 1,289 | 926.49 | 306.79 | 1,384.54 | 368.09 | 674.88 | 3,222 | 1.33 | 149.96 |
| 135 | 330905 | 2212 | 2 | 1106 | 0 | 830.90 | 284.95 | 1,213.22 | 341.87 | 626.82 | 0 | 0.00 | 0.00 |
| 136 | 330914 | 4390 | 5 | 878 | 0 | 551.43 | 298.34 | 712.35 | 357.94 | 656.28 | 5,220 | 1.19 | 100.00 |
| 137 | 330915 | 3673 | 1 | 3673 | 0 | 643.43 | 217.13 | 877.24 | 260.51 | 477.64 | 0 | 0.00 | 0.00 |
| 138 | 330925 | 1828 | 1 | 1828 | 0 | 880.17 | 242.53 | 1,301.52 | 290.99 | 533.52 | 0 | 0.00 | 0.00 |
| 139 | 330930 | 3183 | 5 | 637 | 4,285 | 706.31 | 312.50 | 989.92 | 374.92 | 687.42 | 9,154 | 1.58 | 113.63 |
| 140 | 330938 | 5390 | 4 | 1348 | 0 | 423.12 | 270.73 | 482.39 | 324.82 | 595.55 | 0 | 0.00 | 0.00 |
| 141 | 330943 | 2631 | 2 | 1316 | 0 | 777.14 | 272.61 | 1,116.86 | 327.07 | 599.68 | 0 | 0.00 | 0.00 |
| 142 | 330945 | 2091 | 2 | 1046 | 0 | 846.43 | 288.47 | 1,241.04 | 346.10 | 634.57 | 27 | 0.01 | 100.00 |
| 143 | 330946 | 832 | 2 | 416 | 3,518 | 1007.97 | 337.29 | 1,530.57 | 404.68 | 741.97 | 4,851 | 1.87 | 37.89 |
| 144 | 330951 | 2508 | 1 | 2508 | 0 | 792.92 | 227.79 | 1,145.15 | 273.29 | 501.08 | 0 | 0.00 | 0.00 |
| 145 | 330955 | 7164 | 1 | 7164 | 0 | 409.01 | 198.81 | 457.09 | 208.61 | 407.42 | 0 | 0.00 | 0.00 |
| 146 | 340976 | 3413 | 13 | 263 | 33,966 | 676.80 | 367.80 | 937.03 | 441.28 | 809.08 | 32,306 | -0.10 | -4.89 |
| 147 | 340983 | 1144 | 2 | 667 | 1,604 | 967.94 | 310.73 | 1,458.82 | 372.81 | 683.54 | 3,050 | 1.13 | 90.15 |
| 148 | 340990 | 256 | 1 | 256 | 2,603 | 1081.88 | 369.20 | 1,663.03 | 442.96 | 812.16 | 2,466 | -0.46 | -5.26 |

Appendix C
2012 Average Schedule USF Study
Comparison of Current and Proposed Monthly HCL Cost per Loop Model Payments

| Obs | Study Area Code | Loops | Exch | Loops per Exch | Current Payments | Formula CAPEX per Loop Benchmark | CAPEX per Loop | Formula OPEX per Loop Benchmark | OPEX per Loop | Proposed Cost per Loop | Monthly Payment (Fund Cap Appl.) | Per Loop Payment Difference | Payment Percent Difference |
|-----|--------------------|-------|------|-------------------|---------------------|--|-------------------|---------------------------------------|------------------|------------------------------|---|-----------------------------------|----------------------------------|
| 149 | 340993 | 401 | 1 | 401 | 2,038 | 1063.27 | 340.28 | 1,629.68 | 408.27 | 748.55 | 2,481 | 1.28 | 21.74 |
| 150 | 341016 | 7260 | 2 | 3630 | 0 | 409.01 | 233.50 | 457.09 | 245.01 | 478.51 | 0 | 0.00 | 0.00 |
| 151 | 341017 | 1037 | 1 | 1037 | 0 | 981.67 | 289.00 | 1,483.42 | 346.73 | 635.73 | 79 | 0.08 | 100.00 |
| 152 | 341021 | 97 | 1 | 97 | 1,569 | 1102.28 | 400.90 | 1,699.59 | 481.00 | 881.90 | 1,345 | -2.31 | -14.28 |
| 153 | 341024 | 1748 | 7 | 250 | 18,196 | 890.44 | 370.40 | 1,319.92 | 444.39 | 814.79 | 17,087 | -0.24 | -6.09 |
| 154 | 341029 | 1063 | 2 | 532 | 2,013 | 978.33 | 318.66 | 1,477.44 | 382.33 | 700.99 | 3,838 | 1.84 | 90.66 |
| 155 | 341041 | 93 | 1 | 93 | 1,505 | 1102.79 | 401.70 | 1,700.51 | 481.96 | 883.66 | 1,300 | -2.38 | -13.62 |
| 156 | 341046 | 135 | 1 | 135 | 2,055 | 1097.41 | 393.33 | 1,690.85 | 471.90 | 865.23 | 1,731 | -1.65 | -15.77 |
| 157 | 341050 | 2289 | 1 | 2289 | 0 | 821.02 | 229.79 | 1,195.51 | 275.69 | 505.48 | 0 | 0.00 | 0.00 |
| 158 | 341053 | 2854 | 2 | 1427 | 0 | 748.52 | 266.09 | 1,065.58 | 319.25 | 585.34 | 0 | 0.00 | 0.00 |
| 159 | 341062 | 495 | 1 | 495 | 1,061 | 1051.21 | 321.54 | 1,608.06 | 385.77 | 707.31 | 1,957 | 1.86 | 84.45 |
| 160 | 341075 | 387 | 1 | 387 | 2,021 | 1065.07 | 343.08 | 1,632.90 | 411.61 | 754.69 | 2,523 | 1.67 | 24.84 |
| 161 | 341086 | 371 | 1 | 371 | 2,221 | 1067.12 | 346.27 | 1,636.58 | 415.44 | 761.71 | 2,560 | 1.23 | 15.26 |
| 162 | 341087 | 550 | 1 | 553 | 994 | 1044.16 | 317.43 | 1,595.42 | 380.84 | 698.27 | 1,905 | 1.75 | 91.65 |
| 163 | 341092 | 73 | 1 | 73 | 1,359 | 1105.36 | 405.69 | 1,705.11 | 486.74 | 892.43 | 1,060 | -2.26 | -22.00 |
| 164 | 351097 | 278 | 1 | 278 | 2,612 | 1079.06 | 364.81 | 1,657.97 | 437.69 | 802.50 | 2,532 | 0.07 | -3.06 |
| 165 | 351098 | 310 | 1 | 310 | 2,579 | 1074.95 | 358.43 | 1,650.61 | 430.04 | 788.47 | 2,588 | 0.16 | 0.35 |
| 166 | 351101 | 900 | 1 | 900 | 17 | 999.25 | 297.04 | 1,514.93 | 356.39 | 653.43 | 931 | 1.02 | 5376.47 |
| 167 | 351107 | 282 | 1 | 282 | 2,611 | 1078.54 | 364.01 | 1,657.05 | 436.74 | 800.75 | 2,542 | 0.04 | -2.64 |
| 168 | 351108 | 113 | 1 | 113 | 1,858 | 1100.23 | 397.72 | 1,695.91 | 477.17 | 874.89 | 1,517 | -1.80 | -18.35 |
| 169 | 351112 | 934 | 3 | 311 | 7,646 | 994.88 | 358.23 | 1,507.11 | 429.80 | 788.03 | 7,776 | 0.53 | 1.70 |
| 170 | 351113 | 1300 | 1 | 1300 | 0 | 947.92 | 273.55 | 1,422.94 | 328.20 | 601.75 | 0 | 0.00 | 0.00 |
| 171 | 351114 | 351 | 1 | 351 | 2,412 | 1069.69 | 350.25 | 1,641.18 | 420.23 | 770.48 | 2,589 | 0.69 | 7.34 |
| 172 | 351115 | 1548 | 4 | 541 | 3,006 | 916.10 | 318.13 | 1,365.91 | 381.69 | 699.82 | 5,492 | 1.75 | 82.70 |
| 173 | 351118 | 1586 | 2 | 793 | 492 | 911.22 | 303.33 | 1,357.17 | 363.93 | 667.26 | 2,829 | 1.50 | 475.00 |
| 174 | 351119 | 309 | 1 | 309 | 2,516 | 1075.08 | 358.63 | 1,650.84 | 430.28 | 788.91 | 2,587 | 0.91 | 2.82 |
| 175 | 351121 | 112 | 1 | 112 | 1,815 | 1100.36 | 397.91 | 1,696.14 | 477.41 | 875.32 | 1,507 | -1.93 | -16.97 |
| 176 | 351125 | 4220 | 3 | 1407 | 0 | 573.25 | 267.26 | 751.45 | 320.66 | 587.92 | 0 | 0.00 | 0.00 |
| 177 | 351133 | 733 | 4 | 183 | 9,544 | 1020.67 | 383.76 | 1,553.33 | 460.42 | 844.18 | 8,435 | -1.30 | -11.62 |
| 178 | 351136 | 494 | 1 | 494 | 1,055 | 1051.34 | 321.74 | 1,608.29 | 386.01 | 707.75 | 1,965 | 1.94 | 86.26 |
| 179 | 351137 | 503 | 2 | 252 | 5,198 | 1050.19 | 370.00 | 1,606.23 | 443.91 | 813.91 | 4,893 | -0.17 | -5.87 |
| 180 | 351139 | 1323 | 4 | 331 | 10,072 | 944.97 | 354.25 | 1,417.65 | 425.01 | 779.26 | 10,386 | 0.35 | 3.12 |
| 181 | 351141 | 725 | 1 | 725 | 668 | 1021.70 | 307.33 | 1,555.17 | 368.72 | 676.05 | 1,638 | 1.35 | 145.21 |
| 182 | 351146 | 295 | 1 | 295 | 2,589 | 1076.88 | 361.42 | 1,654.06 | 433.63 | 795.05 | 2,568 | 0.35 | -0.81 |
| 183 | 351147 | 752 | 1 | 752 | 611 | 1018.24 | 305.74 | 1,548.96 | 366.82 | 672.56 | 1,557 | 1.26 | 154.83 |
| 184 | 351149 | 244 | 1 | 244 | 2,591 | 1083.42 | 371.59 | 1,665.79 | 445.83 | 817.42 | 2,420 | -0.70 | -6.60 |
| 185 | 351150 | 482 | 1 | 482 | 1,106 | 1052.88 | 324.13 | 1,611.05 | 388.89 | 713.02 | 2,055 | 2.04 | 85.80 |

Appendix C
2012 Average Schedule USF Study
Comparison of Current and Proposed Monthly HCL Cost per Loop Model Payments

| Obs | Study Area Code | Loops | Exch | Loops per Exch | Current Payments | Formula CAPEX per Loop Benchmark | CAPEX per Loop | Formula OPEX per Loop Benchmark | OPEX per Loop | Proposed Cost per Loop | Monthly Payment (Fund Cap Appl.) | Per Loop Payment Difference | Payment Percent Difference |
|-----|--------------------|-------|------|-------------------|---------------------|--|-------------------|---------------------------------------|------------------|------------------------------|---|-----------------------------------|----------------------------------|
| 186 | 351152 | 1280 | 2 | 640 | 1,805 | 950.49 | 312.32 | 1,427.54 | 374.71 | 687.03 | 3,654 | 1.44 | 102.44 |
| 187 | 351153 | 608 | 1 | 608 | 914 | 1036.71 | 314.20 | 1,582.08 | 376.96 | 691.16 | 1,872 | 1.63 | 104.81 |
| 188 | 351157 | 615 | 2 | 308 | 5,135 | 1035.82 | 358.83 | 1,580.47 | 430.51 | 789.34 | 5,164 | 0.37 | 0.56 |
| 189 | 351160 | 843 | 2 | 422 | 3,454 | 1006.56 | 336.10 | 1,528.04 | 403.24 | 739.34 | 4,795 | 1.82 | 38.82 |
| 190 | 351162 | 1088 | 2 | 544 | 2,000 | 975.12 | 317.96 | 1,471.70 | 381.47 | 699.43 | 3,837 | 1.79 | 91.85 |
| 191 | 351166 | 655 | 1 | 655 | 577 | 1030.68 | 311.44 | 1,571.27 | 373.65 | 685.09 | 1,801 | 2.00 | 212.13 |
| 192 | 351168 | 1657 | 7 | 237 | 18,127 | 902.11 | 372.99 | 1,340.85 | 447.50 | 820.49 | 16,709 | -0.65 | -7.82 |
| 193 | 351171 | 1892 | 1 | 1892 | 0 | 871.96 | 238.77 | 1,286.80 | 286.48 | 525.25 | 0 | 0.00 | 0.00 |
| 194 | 351173 | 1982 | 4 | 496 | 4,163 | 860.41 | 321.34 | 1,266.11 | 385.53 | 706.87 | 7,788 | 1.99 | 87.08 |
| 195 | 351175 | 334 | 1 | 334 | 2,390 | 1071.87 | 353.65 | 1,645.09 | 424.29 | 777.94 | 2,598 | 1.23 | 8.70 |
| 196 | 351176 | 421 | 1 | 421 | 1,486 | 1060.71 | 336.29 | 1,625.08 | 403.48 | 739.77 | 2,405 | 2.54 | 61.84 |
| 197 | 351177 | 1329 | 4 | 332 | 9,895 | 944.20 | 354.05 | 1,416.27 | 424.77 | 778.82 | 10,402 | 0.69 | 5.12 |
| 198 | 351179 | 286 | 1 | 286 | 2,613 | 1078.03 | 363.22 | 1,656.13 | 435.78 | 799.00 | 2,551 | -0.25 | -2.37 |
| 199 | 351188 | 439 | 1 | 439 | 1,425 | 1058.40 | 332.71 | 1,620.94 | 399.17 | 731.88 | 2,320 | 2.27 | 62.81 |
| 200 | 351189 | 766 | 2 | 383 | 4,421 | 1016.44 | 343.87 | 1,545.74 | 412.57 | 756.44 | 5,067 | 0.98 | 14.61 |
| 201 | 351191 | 425 | 1 | 425 | 1,759 | 1060.19 | 335.50 | 1,624.16 | 402.52 | 738.02 | 2,387 | 1.65 | 35.70 |
| 202 | 351199 | 410 | 1 | 410 | 1,920 | 1062.12 | 338.49 | 1,627.61 | 406.11 | 744.60 | 2,449 | 1.49 | 27.55 |
| 203 | 351202 | 669 | 1 | 669 | 798 | 1028.89 | 310.61 | 1,568.05 | 372.67 | 683.28 | 1,774 | 1.49 | 122.31 |
| 204 | 351203 | 677 | 1 | 677 | 756 | 1027.86 | 310.15 | 1,566.21 | 372.10 | 682.25 | 1,757 | 1.52 | 132.41 |
| 205 | 351205 | 1178 | 2 | 589 | 1,811 | 963.57 | 315.31 | 1,451.00 | 378.31 | 693.62 | 3,783 | 1.79 | 108.89 |
| 206 | 351212 | 2868 | 1 | 2868 | 0 | 746.73 | 224.50 | 1,062.36 | 269.34 | 493.84 | 0 | 0.00 | 0.00 |
| 207 | 351213 | 261 | 1 | 261 | 2,614 | 1081.24 | 368.20 | 1,661.88 | 441.76 | 809.96 | 2,483 | 0.28 | -5.01 |
| 208 | 351217 | 828 | 3 | 276 | 7,821 | 1008.48 | 365.21 | 1,531.49 | 438.17 | 803.38 | 7,582 | 0.25 | -3.06 |
| 209 | 351222 | 678 | 1 | 678 | 800 | 1027.73 | 310.09 | 1,565.98 | 372.03 | 682.12 | 1,755 | 1.42 | 119.38 |
| 210 | 351225 | 1558 | 4 | 390 | 8,634 | 914.82 | 342.48 | 1,363.61 | 410.89 | 753.37 | 10,046 | 1.05 | 16.35 |
| 211 | 351228 | 241 | 1 | 241 | 2,591 | 1083.80 | 372.19 | 1,666.48 | 446.55 | 818.74 | 2,407 | -0.63 | -7.10 |
| 212 | 351230 | 1712 | 3 | 571 | 2,985 | 895.06 | 316.37 | 1,328.20 | 379.58 | 695.95 | 5,714 | 1.62 | 91.42 |
| 213 | 351232 | 509 | 1 | 509 | 1,048 | 1049.42 | 320.01 | 1,604.85 | 383.95 | 703.96 | 1,920 | 1.78 | 83.21 |
| 214 | 351235 | 526 | 1 | 526 | 1,029 | 1047.23 | 319.01 | 1,600.94 | 382.75 | 701.76 | 1,921 | 1.78 | 86.69 |
| 215 | 351237 | 1250 | 4 | 313 | 10,214 | 954.34 | 357.83 | 1,434.44 | 429.32 | 787.15 | 10,347 | 0.45 | 1.30 |
| 216 | 351238 | 252 | 1 | 252 | 2,613 | 1082.39 | 370.00 | 1,663.95 | 443.91 | 813.91 | 2,451 | 0.53 | -6.20 |
| 217 | 351239 | 488 | 2 | 244 | 5,206 | 1052.11 | 371.59 | 1,609.67 | 445.83 | 817.42 | 4,840 | -0.17 | -7.03 |
| 218 | 351241 | 692 | 1 | 692 | 710 | 1025.93 | 309.26 | 1,562.76 | 371.05 | 680.31 | 1,724 | 1.51 | 142.82 |
| 219 | 351242 | 632 | 1 | 632 | 841 | 1033.63 | 312.79 | 1,576.56 | 375.27 | 688.06 | 1,839 | 1.65 | 118.67 |
| 220 | 351245 | 313 | 1 | 313 | 2,505 | 1074.57 | 357.83 | 1,649.92 | 429.32 | 787.15 | 2,591 | 0.91 | 3.43 |
| 221 | 351246 | 644 | 2 | 322 | 5,089 | 1032.09 | 356.04 | 1,573.80 | 427.16 | 783.20 | 5,193 | 0.27 | 2.04 |
| 222 | 351247 | 790 | 4 | 198 | 9,832 | 1013.36 | 380.77 | 1,540.23 | 456.83 | 837.60 | 8,766 | -1.15 | -10.84 |

Appendix C
2012 Average Schedule USF Study
Comparison of Current and Proposed Monthly HCL Cost per Loop Model Payments

| Obs | Study Area Code | Loops | Exch | Loops per Exch | Current Payments | Formula CAPEX per Loop Benchmark | CAPEX per Loop | Formula OPEX per Loop Benchmark | OPEX per Loop | Proposed Cost per Loop | Monthly Payment (Fund Cap Appl.) | Per Loop Payment Difference | Payment Percent Difference |
|-----|--------------------|-------|------|-------------------|---------------------|--|-------------------|---------------------------------------|------------------|------------------------------|---|-----------------------------------|----------------------------------|
| 223 | 351250 | 493 | 1 | 493 | 1,297 | 1051.47 | 321.94 | 1,608.52 | 386.25 | 708.19 | 1,972 | 1.31 | 52.04 |
| 224 | 351251 | 1756 | 3 | 585 | 2,887 | 889.41 | 315.55 | 1,318.08 | 378.59 | 694.14 | 5,689 | 1.64 | 97.06 |
| 225 | 351257 | 742 | 1 | 742 | 599 | 1019.52 | 306.33 | 1,551.26 | 367.52 | 673.85 | 1,588 | 1.35 | 165.11 |
| 226 | 351259 | 1935 | 7 | 276 | 18,309 | 866.44 | 365.21 | 1,276.92 | 438.17 | 803.38 | 17,719 | 0.15 | -3.22 |
| 227 | 351260 | 3479 | 3 | 1160 | 0 | 668.33 | 281.77 | 921.85 | 338.07 | 619.84 | 0 | 0.00 | 0.00 |
| 228 | 351261 | 1076 | 4 | 269 | 10,452 | 976.66 | 366.61 | 1,474.46 | 439.84 | 806.45 | 10,032 | -0.08 | -4.02 |
| 229 | 351264 | 575 | 2 | 288 | 5,184 | 1040.95 | 362.82 | 1,589.67 | 435.30 | 798.12 | 5,101 | 0.46 | -1.60 |
| 230 | 351265 | 181 | 1 | 181 | 2,427 | 1091.50 | 384.16 | 1,680.27 | 460.90 | 845.06 | 2,093 | -0.95 | -13.76 |
| 231 | 351266 | 225 | 1 | 225 | 2,581 | 1085.86 | 375.38 | 1,670.16 | 450.37 | 825.75 | 2,333 | -0.48 | -9.61 |
| 232 | 351269 | 464 | 1 | 464 | 1,323 | 1055.19 | 327.72 | 1,615.19 | 393.19 | 720.91 | 2,176 | 1.94 | 64.47 |
| 233 | 351270 | 267 | 1 | 267 | 2,603 | 1080.47 | 367.01 | 1,660.50 | 440.32 | 807.33 | 2,502 | -0.76 | -3.88 |
| 234 | 351273 | 721 | 1 | 721 | 633 | 1022.21 | 307.56 | 1,556.09 | 369.00 | 676.56 | 1,649 | 1.44 | 160.51 |
| 235 | 351275 | 169 | 1 | 169 | 2,353 | 1093.04 | 386.55 | 1,683.03 | 463.77 | 850.32 | 2,010 | -1.11 | -14.58 |
| 236 | 351276 | 1008 | 2 | 504 | 2,109 | 985.39 | 320.31 | 1,490.09 | 384.29 | 704.60 | 3,837 | 1.77 | 81.93 |
| 237 | 351278 | 714 | 1 | 714 | 263 | 1023.11 | 307.97 | 1,557.70 | 369.50 | 677.47 | 1,669 | 2.03 | 534.60 |
| 238 | 351280 | 361 | 1 | 361 | 2,451 | 1068.41 | 348.26 | 1,638.88 | 417.84 | 766.10 | 2,577 | 0.20 | 5.14 |
| 239 | 351282 | 1093 | 4 | 273 | 10,435 | 974.48 | 365.81 | 1,470.55 | 438.89 | 804.70 | 10,087 | 0.03 | -3.33 |
| 240 | 351283 | 350 | 1 | 350 | 2,106 | 1069.82 | 350.45 | 1,641.41 | 420.47 | 770.92 | 2,590 | 2.23 | 22.98 |
| 241 | 351285 | 888 | 2 | 444 | 2,969 | 1000.79 | 331.71 | 1,517.69 | 397.98 | 729.69 | 4,587 | 1.99 | 54.50 |
| 242 | 351291 | 1492 | 4 | 373 | 8,889 | 923.28 | 345.87 | 1,378.79 | 414.96 | 760.83 | 10,223 | 1.19 | 15.01 |
| 243 | 351292 | 205 | 1 | 205 | 2,511 | 1088.42 | 379.37 | 1,674.75 | 455.16 | 834.53 | 2,235 | -0.89 | -10.99 |
| 244 | 351293 | 931 | 2 | 466 | 2,125 | 995.27 | 327.32 | 1,507.80 | 392.71 | 720.03 | 4,322 | 2.52 | 103.39 |
| 245 | 351294 | 463 | 1 | 463 | 1,486 | 1055.32 | 327.92 | 1,615.42 | 393.43 | 721.35 | 2,182 | 1.54 | 46.84 |
| 246 | 351301 | 574 | 3 | 191 | 7,295 | 1041.08 | 382.16 | 1,589.90 | 458.51 | 840.67 | 6,479 | -1.18 | -11.19 |
| 247 | 351302 | 1076 | 1 | 1076 | 0 | 976.66 | 286.71 | 1,474.46 | 343.98 | 630.69 | 0 | 0.00 | 0.00 |
| 248 | 351306 | 1231 | 1 | 1231 | 0 | 956.77 | 277.60 | 1,438.81 | 333.06 | 610.66 | 0 | 0.00 | 0.00 |
| 249 | 351307 | 168 | 1 | 168 | 2,274 | 1093.17 | 386.75 | 1,683.26 | 464.01 | 850.76 | 2,002 | -1.54 | -11.96 |
| 250 | 351308 | 381 | 1 | 381 | 2,283 | 1065.84 | 344.27 | 1,634.28 | 413.05 | 757.32 | 2,538 | 0.70 | 11.17 |
| 251 | 351309 | 392 | 1 | 392 | 1,425 | 1064.43 | 342.08 | 1,631.75 | 410.42 | 752.50 | 2,509 | 3.39 | 76.07 |
| 252 | 351310 | 471 | 1 | 471 | 1,203 | 1054.29 | 326.32 | 1,613.58 | 391.52 | 717.84 | 2,131 | 2.07 | 77.14 |
| 253 | 351319 | 2320 | 6 | 387 | 13,421 | 817.04 | 343.08 | 1,188.38 | 411.61 | 754.69 | 15,125 | 0.79 | 12.70 |
| 254 | 351320 | 447 | 1 | 447 | 1,203 | 1057.37 | 331.11 | 1,619.10 | 397.26 | 728.37 | 2,277 | 2.64 | 89.28 |
| 255 | 351322 | 434 | 1 | 434 | 1,939 | 1059.04 | 333.70 | 1,622.09 | 400.37 | 734.07 | 2,345 | 0.85 | 20.94 |
| 256 | 351331 | 4206 | 6 | 701 | 4,247 | 575.04 | 308.74 | 754.66 | 370.41 | 679.15 | 10,211 | 1.45 | 140.43 |
| 257 | 351334 | 3280 | 8 | 410 | 16,039 | 693.86 | 338.49 | 967.61 | 406.11 | 744.60 | 19,592 | 1.19 | 22.15 |
| 258 | 351335 | 303 | 1 | 303 | 2,581 | 1075.85 | 359.83 | 1,652.22 | 431.71 | 791.54 | 2,580 | 0.30 | -0.04 |
| 259 | 351336 | 1307 | 1 | 1307 | 0 | 947.02 | 273.14 | 1,421.33 | 327.70 | 600.84 | 0 | 0.00 | 0.00 |

Appendix C
2012 Average Schedule USF Study
Comparison of Current and Proposed Monthly HCL Cost per Loop Model Payments

| Obs | Study Area Code | Loops | Exch | Loops per Exch | Current Payments | Formula CAPEX per Loop Benchmark | CAPEX per Loop | Formula OPEX per Loop Benchmark | OPEX per Loop | Proposed Cost per Loop | Monthly Payment (Fund Cap Appl.) | Per Loop Payment Difference | Payment Percent Difference |
|-----|--------------------|-------|------|-------------------|---------------------|--|-------------------|---------------------------------------|------------------|------------------------------|---|-----------------------------------|----------------------------------|
| 260 | 351342 | 175 | 1 | 175 | 2,365 | 1092.27 | 385.35 | 1,681.65 | 462.34 | 847.69 | 2,052 | -1.20 | -13.23 |
| 261 | 351343 | 525 | 1 | 525 | 1,034 | 1047.36 | 319.07 | 1,601.17 | 382.82 | 701.89 | 1,921 | 1.76 | 85.78 |
| 262 | 351344 | 696 | 3 | 232 | 7,821 | 1025.42 | 373.98 | 1,561.84 | 448.70 | 822.68 | 7,101 | 0.19 | -9.21 |
| 263 | 351405 | 2047 | 7 | 292 | 18,270 | 852.07 | 362.02 | 1,251.16 | 434.34 | 796.36 | 17,966 | -0.13 | -1.66 |
| 264 | 351424 | 903 | 3 | 301 | 7,795 | 998.86 | 360.23 | 1,514.24 | 432.19 | 792.42 | 7,733 | 0.02 | -0.80 |
| 265 | 361348 | 71 | 1 | 71 | 1,275 | 1105.62 | 406.09 | 1,705.57 | 487.22 | 893.31 | 1,035 | -2.42 | -18.82 |
| 266 | 361353 | 1104 | 1 | 1104 | 0 | 973.07 | 285.06 | 1,468.02 | 342.01 | 627.07 | 0 | 0.00 | 0.00 |
| 267 | 361356 | 4065 | 5 | 813 | 1,516 | 593.14 | 302.16 | 787.09 | 362.52 | 664.68 | 6,683 | 1.28 | 340.83 |
| 268 | 361365 | 250 | 1 | 250 | 2,606 | 1082.65 | 370.40 | 1,664.41 | 444.39 | 814.79 | 2,444 | 0.02 | -6.22 |
| 269 | 361372 | 165 | 1 | 165 | 2,315 | 1093.56 | 387.34 | 1,683.95 | 464.73 | 852.07 | 1,980 | -1.23 | -14.47 |
| 270 | 361375 | 6538 | 11 | 594 | 9,204 | 409.01 | 338.15 | 457.09 | 354.82 | 692.97 | 20,767 | 1.93 | 125.63 |
| 271 | 361381 | 183 | 1 | 183 | 2,456 | 1091.25 | 383.76 | 1,679.81 | 460.42 | 844.18 | 2,106 | -0.77 | -14.25 |
| 272 | 361390 | 1986 | 7 | 284 | 18,290 | 859.90 | 363.61 | 1,265.19 | 436.26 | 799.87 | 17,808 | -0.14 | -2.64 |
| 273 | 361396 | 2893 | 4 | 723 | 2,505 | 743.52 | 307.45 | 1,056.61 | 368.86 | 676.31 | 6,579 | 1.44 | 162.63 |
| 274 | 361401 | 1735 | 10 | 174 | 23,252 | 892.10 | 385.55 | 1,322.91 | 462.58 | 848.13 | 20,393 | -1.43 | -12.30 |
| 275 | 361403 | 777 | 1 | 777 | 500 | 1015.03 | 304.27 | 1,543.21 | 365.06 | 669.33 | 1,473 | 1.26 | 194.60 |
| 276 | 361404 | 884 | 2 | 442 | 3,274 | 1001.30 | 332.11 | 1,518.61 | 398.45 | 730.56 | 4,608 | 1.61 | 40.75 |
| 277 | 361405 | 596 | 3 | 199 | 7,436 | 1038.25 | 380.57 | 1,584.84 | 456.59 | 837.16 | 6,597 | -1.06 | -11.28 |
| 278 | 361408 | 1589 | 3 | 530 | 3,086 | 910.84 | 318.78 | 1,356.48 | 382.46 | 701.24 | 5,759 | 1.76 | 86.62 |
| 279 | 361409 | 8322 | 1 | 8322 | 0 | 409.01 | 190.60 | 457.09 | 200.00 | 390.60 | 0 | 0.00 | 0.00 |
| 280 | 361413 | 1646 | 4 | 412 | 7,756 | 903.52 | 338.09 | 1,343.38 | 405.63 | 743.72 | 9,753 | 1.37 | 25.75 |
| 281 | 361423 | 752 | 1 | 752 | 534 | 1018.24 | 305.74 | 1,548.96 | 366.82 | 672.56 | 1,557 | 1.38 | 191.57 |
| 282 | 361424 | 716 | 2 | 358 | 4,742 | 1022.86 | 348.86 | 1,557.24 | 418.55 | 767.41 | 5,161 | 0.76 | 8.84 |
| 283 | 361426 | 504 | 2 | 252 | 5,209 | 1050.06 | 370.00 | 1,606.00 | 443.91 | 813.91 | 4,903 | -0.06 | -5.87 |
| 284 | 361427 | 19618 | 1 | 19618 | 0 | 409.01 | 190.60 | 457.09 | 200.00 | 390.60 | 0 | 0.00 | 0.00 |
| 285 | 361430 | 8653 | 8 | 1082 | 0 | 409.01 | 307.39 | 457.09 | 322.53 | 629.92 | 0 | 0.00 | 0.00 |
| 286 | 361431 | 2230 | 4 | 558 | 3,971 | 828.59 | 317.14 | 1,209.08 | 380.49 | 697.63 | 7,646 | 1.72 | 92.55 |
| 287 | 361439 | 687 | 3 | 229 | 7,759 | 1026.58 | 374.58 | 1,563.91 | 449.42 | 824.00 | 7,058 | -0.46 | -9.03 |
| 288 | 361440 | 1603 | 4 | 401 | 7,442 | 909.04 | 340.28 | 1,353.26 | 408.27 | 748.55 | 9,918 | 1.90 | 33.27 |
| 289 | 361443 | 8646 | 9 | 961 | 0 | 409.01 | 315.01 | 457.09 | 330.54 | 645.55 | 5,255 | 0.61 | 100.00 |
| 290 | 361450 | 3596 | 6 | 599 | 5,471 | 653.31 | 314.73 | 894.94 | 377.60 | 692.33 | 11,298 | 1.70 | 106.51 |
| 291 | 361472 | 5440 | 10 | 544 | 10,131 | 416.70 | 317.96 | 470.89 | 381.47 | 699.43 | 19,183 | 1.73 | 89.35 |
| 292 | 361474 | 494 | 1 | 494 | 1,059 | 1051.34 | 321.74 | 1,608.29 | 386.01 | 707.75 | 1,965 | 1.90 | 85.55 |
| 293 | 361475 | 3405 | 9 | 378 | 19,519 | 677.82 | 344.87 | 938.87 | 413.77 | 758.64 | 22,928 | 1.30 | 17.47 |
| 294 | 361476 | 386 | 1 | 386 | 2,064 | 1065.20 | 343.28 | 1,633.13 | 411.85 | 755.13 | 2,526 | 1.53 | 22.38 |
| 295 | 361479 | 11731 | 3 | 3910 | 0 | 409.01 | 230.76 | 457.09 | 242.12 | 472.88 | 0 | 0.00 | 0.00 |
| 296 | 361487 | 1148 | 1 | 1148 | 0 | 967.42 | 282.48 | 1,457.90 | 338.91 | 621.39 | 0 | 0.00 | 0.00 |

Appendix C
2012 Average Schedule USF Study
Comparison of Current and Proposed Monthly HCL Cost per Loop Model Payments

| Obs | Study Area Code | Loops | Exch | Loops per Exch | Current Payments | Formula CAPEX per Loop Benchmark | CAPEX per Loop | Formula OPEX per Loop Benchmark | OPEX per Loop | Proposed Cost per Loop | Monthly Payment (Fund Cap Appl.) | Per Loop Payment Difference | Payment Percent Difference |
|-----|--------------------|-------|------|-------------------|---------------------|--|-------------------|---------------------------------------|------------------|------------------------------|---|-----------------------------------|----------------------------------|
| 297 | 361495 | 670 | 2 | 335 | 5,018 | 1028.76 | 353.45 | 1,567.82 | 424.05 | 777.50 | 5,196 | 0.32 | 3.55 |
| 298 | 361499 | 1990 | 1 | 1990 | 0 | 859.38 | 233.02 | 1,264.27 | 279.57 | 512.59 | 0 | 0.00 | 0.00 |
| 299 | 361500 | 36 | 1 | 36 | 699 | 1110.11 | 413.07 | 1,713.62 | 495.59 | 908.66 | 559 | -2.87 | -20.03 |
| 300 | 361502 | 1878 | 2 | 939 | 0 | 873.76 | 294.75 | 1,290.02 | 353.64 | 648.39 | 1,430 | 0.76 | 100.00 |
| 301 | 361505 | 5714 | 18 | 317 | 45,863 | 409.01 | 383.26 | 457.09 | 402.14 | 785.40 | 46,758 | 0.36 | 1.95 |
| 302 | 361507 | 1230 | 1 | 1230 | 0 | 956.90 | 277.66 | 1,439.04 | 333.13 | 610.79 | 0 | 0.00 | 0.00 |
| 303 | 361508 | 817 | 1 | 817 | 208 | 1009.90 | 301.92 | 1,534.02 | 362.24 | 664.16 | 1,320 | 1.38 | 534.62 |
| 304 | 361512 | 138 | 1 | 138 | 2,134 | 1097.02 | 392.73 | 1,690.16 | 471.19 | 863.92 | 1,758 | -1.39 | -17.62 |
| 305 | 361515 | 1790 | 1 | 1790 | 0 | 885.05 | 244.77 | 1,310.26 | 293.66 | 538.43 | 0 | 0.00 | 0.00 |
| 306 | 361654 | 1556 | 3 | 519 | 3,171 | 915.07 | 319.43 | 1,364.07 | 383.24 | 702.67 | 5,760 | 1.64 | 81.65 |
| 307 | 371530 | 1233 | 5 | 247 | 13,038 | 956.52 | 370.99 | 1,438.35 | 445.11 | 816.10 | 12,140 | -0.21 | -6.89 |
| 308 | 371555 | 5121 | 9 | 569 | 8,796 | 457.64 | 316.49 | 544.25 | 379.71 | 696.20 | 17,162 | 1.70 | 95.11 |
| 309 | 371563 | 875 | 2 | 438 | 3,093 | 1002.45 | 332.91 | 1,520.68 | 399.41 | 732.32 | 4,644 | 1.97 | 50.15 |
| 310 | 371581 | 1514 | 2 | 757 | 1,028 | 920.46 | 305.44 | 1,373.73 | 366.47 | 671.91 | 3,082 | 1.38 | 199.81 |
| 311 | 371590 | 71 | 1 | 71 | 1,247 | 1105.62 | 406.09 | 1,705.57 | 487.22 | 893.31 | 1,035 | -2.50 | -17.00 |
| 312 | 381509 | 269 | 2 | 135 | 3,945 | 1080.21 | 393.33 | 1,660.04 | 471.90 | 865.23 | 3,449 | -1.95 | -12.57 |
| 313 | 381601 | 50 | 1 | 50 | 914 | 1108.31 | 410.28 | 1,710.40 | 492.24 | 902.52 | 758 | -2.76 | -17.07 |
| 314 | 381614 | 1317 | 5 | 263 | 13,048 | 945.74 | 367.80 | 1,419.03 | 441.28 | 809.08 | 12,466 | -0.29 | -4.46 |
| 315 | 381615 | 1710 | 4 | 428 | 6,734 | 895.31 | 334.90 | 1,328.66 | 401.80 | 736.70 | 9,482 | 1.81 | 40.81 |
| 316 | 381622 | 808 | 2 | 404 | 4,212 | 1011.05 | 339.68 | 1,536.09 | 407.55 | 747.23 | 4,941 | 0.94 | 17.31 |
| 317 | 381625 | 5612 | 15 | 374 | 36,127 | 409.01 | 371.05 | 457.09 | 389.34 | 760.39 | 38,321 | 0.15 | 6.07 |
| 318 | 381638 | 998 | 3 | 333 | 7,627 | 986.67 | 353.85 | 1,492.39 | 424.53 | 778.38 | 7,787 | 0.11 | 2.10 |
| 319 | 383303 | 33036 | 25 | 1321 | 0 | 409.01 | 292.31 | 457.09 | 306.72 | 599.03 | 0 | 0.00 | 0.00 |
| 320 | 391640 | 1360 | 3 | 453 | 4,236 | 940.22 | 329.92 | 1,409.15 | 395.82 | 725.74 | 6,734 | 1.97 | 58.97 |
| 321 | 391649 | 1338 | 1 | 1338 | 0 | 943.04 | 271.32 | 1,414.20 | 325.52 | 596.84 | 0 | 0.00 | 0.00 |
| 322 | 391650 | 9530 | 1 | 9530 | 0 | 409.01 | 190.60 | 457.09 | 200.00 | 390.60 | 0 | 0.00 | 0.00 |
| 323 | 391653 | 317 | 1 | 317 | 2,520 | 1074.05 | 357.04 | 1,649.00 | 428.36 | 785.40 | 2,594 | 0.68 | 2.94 |
| 324 | 391660 | 5332 | 8 | 667 | 6,088 | 430.56 | 310.73 | 495.72 | 372.81 | 683.54 | 14,213 | 1.58 | 133.46 |
| 325 | 391664 | 3387 | 14 | 242 | 36,347 | 680.13 | 371.99 | 943.01 | 446.31 | 818.30 | 33,752 | -0.31 | -7.14 |
| 326 | 391669 | 1972 | 6 | 329 | 15,230 | 861.69 | 354.64 | 1,268.41 | 425.49 | 780.13 | 15,574 | 0.20 | 2.26 |
| 327 | 391671 | 2126 | 1 | 2126 | 0 | 841.93 | 231.28 | 1,232.99 | 277.48 | 508.76 | 0 | 0.00 | 0.00 |
| 328 | 391677 | 4184 | 5 | 837 | 520 | 577.87 | 300.74 | 759.72 | 360.83 | 661.57 | 6,174 | 1.36 | 1087.31 |
| 329 | 391682 | 379 | 2 | 190 | 4,832 | 1066.10 | 382.36 | 1,634.74 | 458.75 | 841.11 | 4,288 | -1.27 | -11.26 |
| 330 | 391684 | 1471 | 2 | 736 | 1,082 | 925.98 | 306.68 | 1,383.62 | 367.95 | 674.63 | 3,211 | 1.49 | 196.77 |
| 331 | 401710 | 816 | 2 | 408 | 3,618 | 1010.02 | 338.89 | 1,534.25 | 406.59 | 745.48 | 4,913 | 1.90 | 35.79 |
| 332 | 401712 | 6266 | 8 | 783 | 3,344 | 409.01 | 326.24 | 457.09 | 342.31 | 668.55 | 11,615 | 1.34 | 247.34 |
| 333 | 401722 | 3049 | 8 | 381 | 16,841 | 723.50 | 344.27 | 1,020.73 | 413.05 | 757.32 | 20,313 | 1.49 | 20.62 |

Appendix C
2012 Average Schedule USF Study
Comparison of Current and Proposed Monthly HCL Cost per Loop Model Payments

| Obs | Study Area Code | Loops | Exch | Loops per Exch | Current Payments | Formula CAPEX per Loop Benchmark | CAPEX per Loop | Formula OPEX per Loop Benchmark | OPEX per Loop | Proposed Cost per Loop | Monthly Payment (Fund Cap Appl.) | Per Loop Payment Difference | Payment Percent Difference |
|--------|--------------------|-------|------|-------------------|---------------------|--|-------------------|---------------------------------------|------------------|------------------------------|---|-----------------------------------|----------------------------------|
| 334 | 421759 | 2267 | 6 | 378 | 13,616 | 823.84 | 344.87 | 1,200.57 | 413.77 | 758.64 | 15,265 | 0.84 | 12.11 |
| 335 | 421893 | 423 | 1 | 423 | 1,705 | 1060.45 | 335.90 | 1,624.62 | 403.00 | 738.90 | 2,396 | 1.87 | 40.53 |
| 336 | 421900 | 1263 | 4 | 316 | 10,087 | 952.67 | 357.24 | 1,431.45 | 428.60 | 785.84 | 10,365 | 0.71 | 2.76 |
| 337 | 421932 | 1275 | 1 | 1275 | 0 | 951.13 | 275.02 | 1,428.69 | 329.96 | 604.98 | 0 | 0.00 | 0.00 |
| 338 | 421936 | 441 | 1 | 441 | 1,727 | 1058.14 | 332.31 | 1,620.48 | 398.69 | 731.00 | 2,309 | 1.37 | 33.70 |
| 339 | 421942 | 1522 | 3 | 507 | 3,120 | 919.44 | 320.13 | 1,371.89 | 384.09 | 704.22 | 5,762 | 1.85 | 84.68 |
| 340 | 431968 | 1453 | 1 | 1453 | 0 | 928.29 | 264.56 | 1,387.76 | 317.42 | 581.98 | 0 | 0.00 | 0.00 |
| 341 | 442043 | 559 | 2 | 280 | 5,165 | 1043.00 | 364.41 | 1,593.35 | 437.22 | 801.63 | 5,066 | 0.75 | -1.92 |
| 342 | 442107 | 6207 | 1 | 6207 | 0 | 409.01 | 208.21 | 457.09 | 218.46 | 426.67 | 0 | 0.00 | 0.00 |
| 343 | 462198 | 833 | 1 | 833 | 242 | 1007.84 | 300.98 | 1,530.34 | 361.11 | 662.09 | 1,253 | 1.22 | 417.77 |
| 344 | 462206 | 62 | 1 | 62 | 1,174 | 1106.77 | 407.89 | 1,707.64 | 489.37 | 897.26 | 919 | -2.44 | -21.72 |
| 345 | 462210 | 53 | 1 | 53 | 945 | 1107.93 | 409.68 | 1,709.71 | 491.53 | 901.21 | 799 | -2.75 | -15.45 |
| 346 | 472227 | 1117 | 5 | 259 | 11,437 | 971.40 | 368.60 | 1,465.03 | 442.24 | 810.84 | 10,680 | -0.23 | -6.62 |
| 347 | 482252 | 2721 | 2 | 1361 | 0 | 765.59 | 269.97 | 1,096.16 | 323.90 | 593.87 | 0 | 0.00 | 0.00 |
| 348 | 502279 | 1436 | 1 | 1436 | 0 | 930.47 | 265.56 | 1,391.67 | 318.61 | 584.17 | 0 | 0.00 | 0.00 |
| 349 | 502282 | 1410 | 1 | 1410 | 0 | 933.81 | 267.09 | 1,397.65 | 320.44 | 587.53 | 0 | 0.00 | 0.00 |
| 350 | 502283 | 1516 | 3 | 505 | 3,165 | 920.21 | 320.25 | 1,373.27 | 384.22 | 704.47 | 5,760 | 1.75 | 81.99 |
| 351 | 522430 | 3726 | 3 | 1242 | 0 | 636.63 | 276.96 | 865.05 | 332.28 | 609.24 | 0 | 0.00 | 0.00 |
| 352 | 532386 | 1685 | 1 | 1685 | 0 | 898.52 | 250.93 | 1,334.41 | 301.07 | 552.00 | 0 | 0.00 | 0.00 |
| 353 | 532396 | 559 | 1 | 559 | 999 | 1043.00 | 317.08 | 1,593.35 | 380.42 | 697.50 | 1,913 | 1.69 | 91.49 |
| 354 | 613005 | 61 | 1 | 61 | 1,130 | 1106.90 | 408.09 | 1,707.87 | 489.61 | 897.70 | 906 | -2.53 | -19.82 |
| 355 | 613026 | 175 | 1 | 175 | 2,328 | 1092.27 | 385.35 | 1,681.65 | 462.34 | 847.69 | 2,052 | -1.43 | -11.86 |
| Total: | | | | 1,024,271 | | | | | | | | 1,299,562 | |